



SEW
EURODRIVE

Dodatok k návodu na obsluhu



Riadenie pohonu a aplikácie MOVIPRO®
Bezdrôtový modem REC5



Obsah

1	Všeobecné upozornenia	4
1.1	Súvisiace podklady	4
1.2	Ďalšie informácie	4
2	Vlastnosti.....	5
2.1	Opis funkcie	5
2.2	Zakódovanie	6
3	Anténové prípojky	7
3.1	Prevádzkový režim anténových prípojok	8
4	Antény.....	9
5	Technické údaje.....	10
5.1	Všeobecne	10
5.2	Výkon a kanály.....	11
5.3	Nastavenia z výroby.....	12
6	Označenia.....	13
7	Schválenia	15
7.1	Európa	15
7.2	Brazília	17
7.3	Čína	18
7.4	USA/Kanada	20
7.5	India	25
7.6	Mexiko.....	27
7.7	Thajsko	28
7.8	Juhoafrická republika	29
7.9	Maroko	30
7.10	Saudská Arábia.....	31
8	MAXOLUTION® Competence Center	32
9	Zoznam adries.....	34
	Register	45

1 Všeobecné upozornenia

1.1 Súvisiace podklady

Funkcie prístroja závisia od vlastností riadenia pohonu a aplikácie MOVIPRO®, s ktorým sa spoločne prevádzkuje.

Keď riadenie pohonu a aplikácie MOVIPRO® disponuje funkciou W4 = WLAN/TCP + UDP, môžete prístroj používať.

Pre zariadenie teda platia okrem tejto dokumentácie návod na obsluhu a ďalšie súvisiace podklady príslušného riadenia pohonu a aplikácie MOVIPRO®.

1.2 Ďalšie informácie

Ďalšie informácie o použití antén v rôznych oblastiach nájdete v nasledovných publikáciách:

- Inštalácia WNI Wireless Network, kompaktný systém vlnovodu s drážkou
- Inštalácia WNI Wireless Network, štandardný systém vlnovodu s drážkou
- Inštalácia Wireless Network, WNI-EMS EMS nosná lišta s integrovaným vlnovodom s drážkou
- MOVIPRO® komunikačný materiál

2 Vlastnosti

UPOZORNENIE



Použitie koncového zariadenia MOVIPRO® s bezdrôtovým modemom je povolené len v uzatvorených priestoroch.

Zariadenie MOVIPRO® je pre napojenie na bezdrôtovú infraštruktúrnú sieť vybavené bezdrôtovým modemom "Radio Ethernet Client 5 GHz" (REC5). Hodí sa pre frekvenčné bloky 2.4 GHz (IEEE 802.11b/g) a 5 GHz (IEEE 802.11a).

Rádiové napojenie je určené pre komunikáciu s nadradeným riadením. Zariadenie MOVIPRO® je v sieti prístupné ako koncový účastník.

Bezdrôtový modem disponuje prepojením WLAN Ethernet Bridge. Na komunikáciu na úrovni MAC môže byť pripojený len účastník typu Ethernet. Je potrebné adresu MAC tohto účastníka vložiť do konfigurácie prepojenia Bridge. Pri zariadeniach MOVIPRO®, ktoré sú vybavené prevádzkovým systémom SEWOS sa toto uskutoční automaticky.

Podľa požiadaviek použitia môže byť bezdrôtový modem vybavený jednou alebo dvomi kartami WLAN.

2.1 Opis funkcie

Pred prvým prístupom do bodu prístupu a pri odovzdaní hľadá bezdrôtový modem vhodný bod prístupu podľa konfigurácie používateľa. Táto fáza sa nazýva "fáza Probing".

Fáza Probing pri odovzdaní začne, keď signálna hladina rádiového modemu spadne pod určitú hodnotu (Cell Search Threshold). Ak sa signálna hranica nájdeného bodu prístupu nachádza na určitej hladine (Delta SNR) vyššej ako je signálna hladina aktuálneho bodu prístupu, vstúpi bezdrôtový modem do nového bodu prístupu (Association/Authentication/4-Way Handshake pri WPA2-PSK). Počas fázy Probing a fázy prístupu do bodu prístupu nie je komunikácia procesných údajov možná. Fáza Probing môže byť skrátená, ak sa na dostupných kanáloch zariadenia obmedzia existujúce kanály podľa Regulatory Domain.

V prevádzke s jednou kartou realizuje táto karta celú fázu Probing s následnou fázou prístupu do prístupového bodu a komunikáciou procesných údajov.

V prevádzke s dvomi kartami WLAN preberá fázu Probing sekundárna karta. Primárna karta je zodpovedná výhradne za fázu prístupu do bodu prístupu a za komunikáciou procesných údajov. Týmto odpadáva latentná doba v komunikácii procesných údajov, ktorá vyplýva z fázy Probing.

UPOZORNENIE



Pri dodaní je aktívna výhradne primárna karta, aj keď fyzicky sú nainštalované obe karty. Druhá karta môže byť aktivovaná prostredníctvom konfigurácie používateľa.

2.2 Zakódovanie

Nasledovné metódy uzatvárania sú podporované:

- **Wired Equivalent Privacy (WEP)**
 - Dĺžka šifrovania 64 a 128 bitov
 - Open System Authentication
 - Shared Key Authentication
- **Wi-Fi Protected Access (WPA, WPA2)**

Autentifikácia sa uskutočňuje s PSK (Pre-Shared Key).

WPA2-AES-PSK je odporúčané ako postup šifrovania. Z dôvodu praktickejšej latentnej doby pri fáze prístupu do Access Point a pri odovzdaní spojenia nie sú podporované postupy šifrovania s použitím rádiového servera.

3 Anténové prípojky



POZOR

Poškodenie bezdrôtového modemu spôsobené chýbajúcimi anténami alebo zakončovacími odpormi.

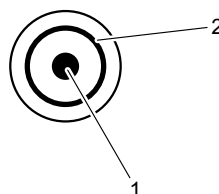
Poškodenie bezdrôtového modemu.

- Pripojte zakončovací odpor 50 Ω na nepoužívané anténové prípojky.

Na kartu WLAN sú pripojené dve antény. Tieto pripojenia sú označené ako X4211 (Anténa WLAN (Main)) a X4261 (Anténa WLAN (Aux)).

Ak je bezdrôtový modem vybavený dvoma kartami WLAN, je fázu prístupu do Access Point a komunikácia procesných dát realizovaná prostredníctvom pripojení X4211_1 a X4261_1. Pripojenia X4211_2 und X4261_2 druhej karty sa využívajú vo fáze Probing.

Fyzicky sú všetky anténne prípojky skonštruované ako zdierka R-TNC podľa nasledujúceho princípu:



1: Vnútorňý vodič

2: Vonkajší vodič

Zakončovací odpor 50 Ω pre nepoužívané anténne prípojky dostanete v SEW-EURODRIVE pod predmetovým číslom 19069146.

3.1 Prevádzkový režim anténových prípojk

Na bezdrôtovom modeme môžete pre anténové pripojenia nastaviť nasledovné prevádzkové režimy:

- **Režim 1: MAIN/AUX Diversity** (príjmová diverzita)
Anténa WLAN (MAIN): prevádzka príjmu a odovzdávania
Anténa WLAN (AUX): výhradne prevádzka príjmu
- **Režim 2: Diversity TX/AUX** (príjmová diverzita)
Anténa WLAN (MAIN): výhradne prevádzka príjmu
Anténa WLAN (AUX): prevádzka príjmu a odovzdávania
- **Režim 3: AUTO RX/TX** (príjmová a odovzdávacia diverzita)
Anténa WLAN (MAIN): prevádzka príjmu a odovzdávania
Anténa WLAN (AUX): prevádzka príjmu a odovzdávania
- **Režim 4: Anténa MAIN**
Anténa WLAN (MAIN): prevádzka príjmu a odovzdávania
Anténa WLAN (AUX): bez funkcie
- **Režim 5: Anténa AUX**
Anténa WLAN (MAIN): bez funkcie
Anténa WLAN (AUX): prevádzka príjmu a odovzdávania

UPOZORNENIE



V prevádzke s dvomi kartami WLAN pôsobia prevádzkové režimy na oboch kartách rovnomerne.

4 Antény

K bezdrôtovému modemu môžete pripojiť rozličné antény. V niektorých regiónoch sú povolené len určité antény.

Nasledujúca tabuľka obsahuje všetky dostupné antény od spoločnosti SEW-EURODRIVE, ktoré môžu byť použité s bezdrôtovým modemom:

Anténa	na použitie s	Katalógové číslo
Väzobný člen krátkych vln 2.4 GHz	Profil rozptýlených vln	13003356
Väzobný člen krátkych vln 5 GHz	Profil rozptýlených vln	18231942
Väzobný člen vozidla 2.4 GHz ¹⁾	Vlnovod s drážkou	18244327
Väzobný člen vozidla 5 GHz	Vlnovod s drážkou	18235840

1) Táto anténa nie je povolená v USA a v Kanade!

Prevádzka bezdrôtového modemu s inými, tu neuvedenými, anténami nie je povolená.

5 Technické údaje

5.1 Všeobecne

Zariadenie má nasledovné technické údaje:

Všeobecne	
Predmetové číslo firmvéru	18239684
Max. prípustný vstupný výkon	– 25 dBm
Max. indikovaný vstupný výkon	– 35 dBm
Impedancia	50 Ω
Prípojky	Zdierka R TNC

Modulačné druhy					
IEEE 802.11b/g			IEEE 802.11a		
Dátový prenosový výkon	Modulácia	Režim	Dátový prenosový výkon	Modulácia	Režim
54/48 Mbps	64-QAM	802.11g	54/48 Mbps	64-QAM	802.11a
36/24 Mbps	16-QAM	802.11g	36/24 Mbps	16-QAM	802.11a
18/12 Mbps	QPSK	802.11g	18/12 Mbps	QPSK	802.11a
9/6 Mbps	BPSK	802.11g	9/6 Mbps	BPSK	802.11a
11/5.5 Mbps	CCK	802.11b	–	–	–
2 Mbps	DQPSK	802.11b	–	–	–
1 Mbps	DQPSK	802.11b	–	–	–

Typická citlivosť prijímača			
IEEE 802.11b/g		IEEE 802.11a	
Dátový prenosový výkon	Citlivosť	Dátový prenosový výkon	Citlivosť
54 Mbps	– 74 dBm	54 Mbps	– 72 dBm
48 Mbps	– 76 dBm	48 Mbps	– 76 dBm
36 Mbps	– 80 dBm	36 Mbps	– 82 dBm
24 Mbps	– 84 dBm	24 Mbps	– 85 dBm
18 Mbps	– 87 dBm	18 Mbps	– 88 dBm
12 Mbps	– 89 dBm	12 Mbps	– 90 dBm
11 Mbps	– 88 dBm	9 Mbps	– 90 dBm
9 Mbps	– 90 dBm	6 Mbps	– 91 dBm
6 Mbps	– 91 dBm	–	–
2 Mbps	– 93 dBm	–	–
1 Mbps	– 97 dBm	–	–

5.2 Výkon a kanály

Zariadenie sa dodáva s nasledujúcimi výstupnými výkonmi a kanálmi pre rozličné regióny:

Región	802.11 – štandard	Typ. Výstupný výkon	Dostupné kanály	DFS	TPC
Čína	IEEE 802.11b/g 2400.0 – 2483.5 MHz	15 dBm	1 – 13	–	–
	IEEE 802.11a 5725 – 5825 MHz	15 dBm	149, 153, 157, 161, 165	Nie	Áno
Brazília Európa India	IEEE 802.11b/g 2400.0 – 2483.5 MHz	15 dBm	1 – 13	–	–
Maroko Mexiko Thajsko	IEEE 802.11a 5150 – 5250 MHz	15 dBm	36, 40, 44, 48	Nie	Áno
Brazília DFS Európa DFS Saudská Arábia Juhoafric- ká repub- lika	IEEE 802.11b/g 2400 – 2483.5 MHz	15 dBm	1 – 13	–	–
	IEEE 802.11a 5150 – 5250 MHz	15 dBm	36, 40, 44, 48	Áno	Áno
	IEEE 802.11a 5250 – 5350 MHz		52, 56, 60, 64	Áno	Áno
	IEEE 802.11a 5470 – 5725 MHz		100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140	Áno	Áno
Kanada USA	IEEE 802.11b/g 2400.0 – 2483.5 MHz	15 dBm	1 – 11	–	–
	IEEE 802.11a 5150 – 5250 MHz	15 dBm	36, 40, 44, 48	Nie	Áno

5.3 Nastavenia z výroby

Zariadenie sa dodáva s nasledovnými nastaveniami:

Nastavenie	Hodnota
Adresa IP	192.168.1.100
Maska pomocnej siete	255.255.255.0
Adresa Gateway	192.168.1.2
Názov zariadenia	SEW wlanBridge
Špecifikácia siete	802.11b/g
Vysielacie kanály	802.11b/g: 1 – 11, 1 – 13 Dostupné kanály závisia od regiónu, v ktorom sa be- zdrôtový modem prevádzkuje (Regulatory Domain).
SSID	SEW
Režim siete	Infraštruktúra
Zakódovanie	Bez zakódovania
Prevádzkový režim	Režim 1: MAIN/AUX Diversity (príjmová diverzita)
Používateľské meno	sew
Heslo	sew

6 Označenia



UPOZORNENIE

Prevádzka zariadenie nie je mimo prednastavenej Regulatory Domain prípustná.

Prednastavená Regulatory Domain je na zariadení MOVIPRO® označená zodpovedajúcou nálepkou.

Na zariadení MOVIPRO® sú podľa krajiny umiestnené nasledujúce označenia:

Krajina	Označenie
Európa	
Brazília	
Čína	
USA/Kanada	
India	
Mexiko	
Thajsko	
Juhoafrická republika	

Krajina	Označenie
Maroko	REGULATORY DOMAIN MOROCCO AGREE PAR L'ANRT MAROC Numéro d'agrément: MR 14742 ANRT 2017 Date d'agrément: 15/09/2017
Saudská Arábia	REGULATORY DOMAIN SAUDI ARABIA

7 Schválenia

7.1 Európa

Zariadenie je schválené pre nasledujúce krajiny:

- | | | | |
|--------------|-------------------|-----------------------|----------------------|
| • Belgicko | • Grécko | • Malta | • Španielsko |
| • Bulharsko | • Holandsko | • Nemecko | • Spojené kráľovstvo |
| • Česko | • Írsko | • Nórsko | • Švajčiarsko |
| • Chorvátsko | • Island | • Poľsko | • Švédsko |
| • Cyprus | • Lichtenštajnsko | • Portugalsko | • Taliansko |
| • Dánsko | • Litva | • Rakúsko | • Turecko |
| • Estónsko | • Lotyšsko | • Rumunsko | |
| • Fínsko | • Luxembursko | • Slovenská republika | |
| • Francúzsko | • Maďarsko | • Slovinsko | |

Okrem toho platia doplňujúce národné ustanovenia o dodržiavaní smernice RE (RED – Radio Equipment Directive) 2014/53/EU. V čase vypracovania tejto dokumentácie neexistovalo pre žiadny z vyššie uvedených štátov obmedzenie uvedenia do prevádzky alebo požiadavka, ktorú by bolo treba splniť pre schválenie používania podľa článku 10 odsek 10 smernice 2014/53/EU.

Týmto spoločnosť SEW-EURODRIVE GmbH & Co KG vyhlasuje, že zariadenia produktového radu MOVIPRO® vyhovujú základným požiadavkám a ďalším príslušným požiadavkám 2014/53/EU. Kópiu vyhlásenia o zhode si môžete vyžiadať v spoločnosti SEW-EURODRIVE.

7.1.1 Vyhlásenie o zhode

Vyhlásenie o zhode EU



Preklad originálneho dokumentu

901290411/SK

SEW-EURODRIVE GmbH & Co. KG
Ernst-Blickle-Straße 42, D-76646 Bruchsal

prehlasuje vo výlučnej zodpovednosti zhodu nasledujúcich výrobkov

Komunikačný systém	REC5 IP5K Základ naprogramovateľný	(18240461)
v danom prípade v spojení s	Systém pohonu radu produktov MOVIPRO®	
v danom prípade v spojení s	1× karta WLAN #MPCI-DCMA-82-MMCX	(17966167)
alebo	2× karta WLAN #MPCI-DCMA-82-MMCX	(17966167)
Popísaný predmet vysvetlenia spĺňa príslušné predpisy harmonizácie Únie:		
Smernica RE	2014/53/EÚ (L153, 22.05.2014, 62-106)	9)
Smernica RoHS	2011/65/EU (L 174, 01.07.2011, 88-110)	
používané harmonizované normy:	EN 301893 V2.1.1 EN 60950-1:2006+A11:2009+A1:2010+A12:2011+AC:2011 +A2:2013 EN 300328 V2.1.1 EN 50581:2012	
ďalšie použité normy:	EN 62311:2008 EN 301489-1 V2.2.0 Draft EN 301489-17 V3.2.0 Draft	

Príslušenstvo a súčasti vrátane softvéru, ktoré umožňujú prevádzku v súlade s určením rádiového zariadenia a sú zaznamenané v EÚ vyhlásení o zhode, sú popísané v dokumente „Doplnok k návodu na obsluhu riadenia pohonu a aplikácie rádiového modemu MOVIPRO® REC5“.

9) Pokiaľ tieto produkty v krajine použitia spadajú pod túto smernicu.

Bruchsal

16.8.2017

Miesto

Dátum

Johann Soder
Technický riaditeľ

a) b)

a) Splnomocnenec pre vyhotovenie tohto vyhlásenia v mene výrobcu

b) Autorizovaný zástupca zostavenie technických podkladov s rovnakou adresou ako výrobca

25883348/SK – 08/2018

7.2 Brazília

 República Federativa do Brasil
Agência Nacional de Telecomunicações

Certificado de Homologação
(Intransferível)

Nº **00380-12-07716**
Validade: Indeterminada
Emissão: 27/07/2018

Requerente: **SEW-EURODRIVE BRASIL LTDA**
AVENIDA AMANCIO GAIOLLI Nº152 BONSUCESSO
07251250 GUARULHOS SP

Fabricante: **SEW-EURODRIVE GMBH & CO., KG.**
ERNST-BLICKLE-STRASSE BRUCHSAL
POSTFACH
ALEMANHA

Este documento homologa, nos termos da regulamentação de telecomunicações vigente, o Certificado de Conformidade nº MT-1526/2012, emitido pelo **MASTER ASSOCIACAO DE AVALIACAO DE CONFORMIDADE TELECOM**. Esta homologação é expedida em nome do solicitante aqui identificado e é válida somente para o produto a seguir discriminado, cuja utilização deve observar as condições estabelecidas na regulamentação de telecomunicações.

Tipo - Categoria: **Transceptor de Radiação Restrita - II**

Modelo - Nome Comercial (s): **1795 6167 WLAN-Karte #MPCI-DCMA-82-MMCX**

Características técnicas básicas:

Faixa de Frequências Tx (MHz)	Potência Máxima de Saída (W)	Designação de Emissões	Tecnologias	Tipo de Modulação
2.400,0 a 2.483,5	0,1754	12M7X9D	SEQUÊNCIA DIRETA	CCK/DQPSK/DBPSK
2.400,0 a 2.483,5	0,2163	17M3X9D	OFDM	BPSK/QPSK/16-64QAM
2.400,0 a 2.483,5	0,2455	33M8X9D	OFDM	BPSK/QPSK/16-64QAM
5.725,0 a 5.850,0	0,1905	17M4X9D	OFDM	BPSK/QPSK/16-64QAM
5.470,0 a 5.725,0	0,01936		OFDM	BPSK/QPSK/16-64QAM
5.150,0 a 5.350,0	0,04909		OFDM	BPSK/QPSK/16-64QAM

Ensaio de SAR não aplicável.
Os valores de potências indicados nas faixas de 5150-5350 MHz e 5470-5725 MHz referem-se à potência média em E.I.R.P.

Observações:
Produto não acabado, de uso interno, cuja integração em outros equipamentos pode requerer nova avaliação.
Este produto destina-se ao uso profissional, manuseado por pessoal devidamente qualificado, não sendo destinado ao uso do público em geral para acesso a serviço de telecomunicações de interesse coletivo.
Na instalação do produto devem ser observadas as condições de uso conforme estabelecido no Regulamento sobre Equipamentos de Radiocomunicação de Radiação Restrita.

Este certificado substitui o de mesmo número emitido em 26/07/2018.

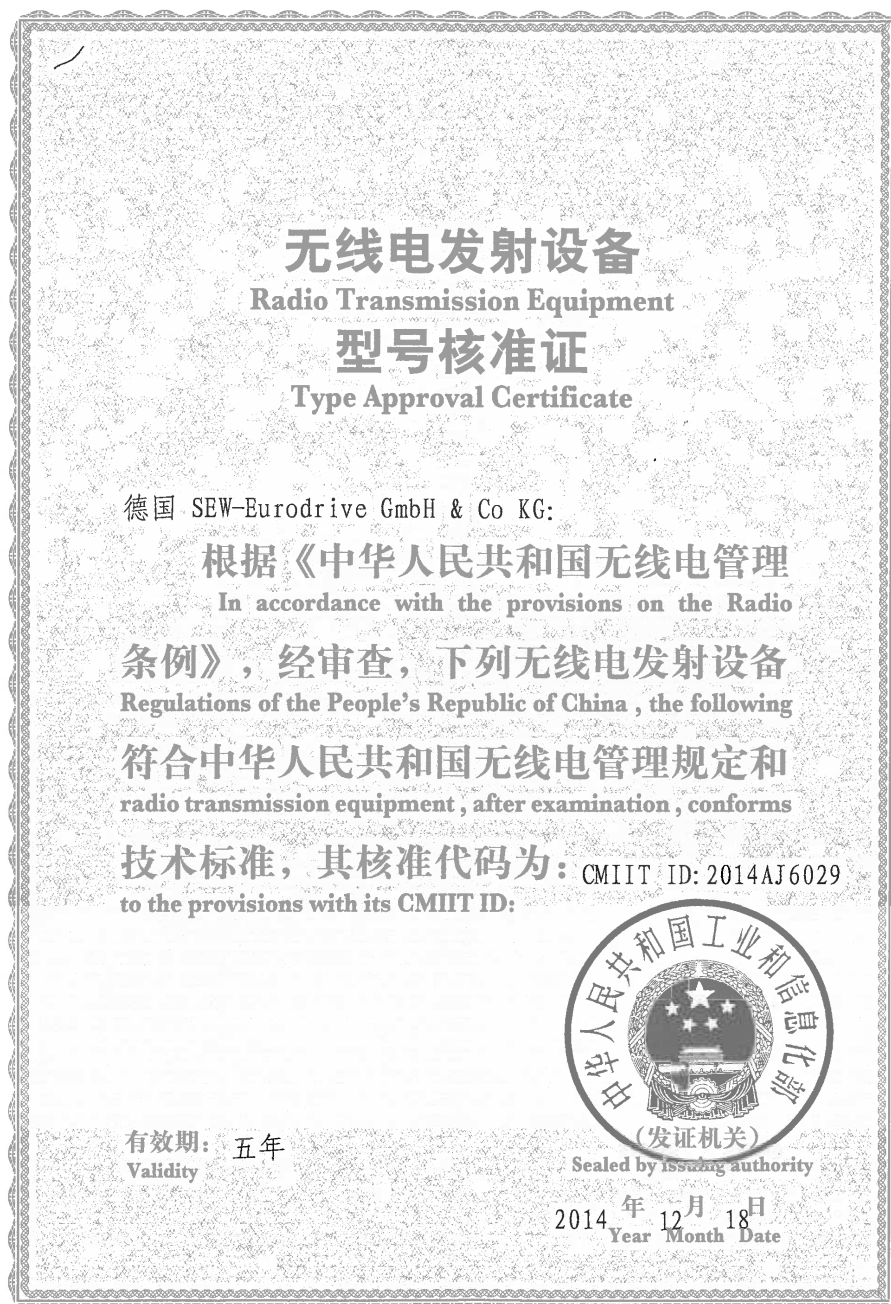
Constitui obrigação do fabricante do produto no Brasil providenciar a identificação do produto homologado, nos termos da regulamentação de telecomunicações, em todas as unidades comercializadas, antes de sua efetiva distribuição ao mercado, assim como observar e manter as características técnicas que fundamentaram a certificação original.

As informações constantes deste certificado de homologação podem ser confirmadas no SCH Sistema de Gestão de Certificação e Homologação, disponível no portal da Anatel. (www.anatel.gov.br).

Davison Gonzaga da Silva
Gerente de Certificação e Numeração

25883348/SK – 08/2018

7.3 Čína



9007205000579851

25883348/SK – 08/2018

编号: 2014-6029 Number	
设备名称: 5.8GHz/5.1GHz/2.4GHz无线局域网设备 Equipment Name	
设备型号: 18247962 Equipment Type	
主要功能: 数据传输 Main Functions	
调制方式: BPSK/QPSK/16QAM/64QAM/DBPSK/DQPSK/CCK Modulation Mode	
主要技术参数及其指标值: Main Technical Parameters	
频率范围: 5725-5850MHz 5150-5350MHz 2400-2483.5MHz Frequency Range	
频率容限: $\leq 20\text{ppm}$ Frequency Tolerance	发射功率: $\leq 33\text{dBm}$ $\leq 23\text{dBm}$ (EIRP) Transmitting Power
占用带宽: $\leq 22\text{MHz}$ Occupied Bandwidth	杂散发射限值: $\leq -30\text{dBm}$ Spurious Emission Limits
 Sealed by Issuing authority 2014 年 12 月 18 日 Year Month Date	

9007205000581771

7.4 USA/Kanada

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Antenna:

The end-user product will be professionally installed in such a manner that only the authorized antennas are used.

Caution:

Changes or modifications not expressly approved by SEW-Eurodrive void the user's authority to operate the equipment.

SEW-EURODRIVE GmbH & Co KG

1 796 616 7 WLAN-Karte #MPCI-DCMA-82-MMCX

FCC ID: VEB-NKRDCMA82

IC: 7177A-DCMA82

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

3320545291

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

This device has been designed to operate with an antenna having a maximum gain of 6.0dBi. Having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (EIRP) is not more than that required for successful communication.

The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the Chapter 8: Regulatory information 8.4:

Safety general population; consult Safety Code 6, obtainable from Health Canada's web-site: <http://www.hc-sc.gc.ca/rpb>

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

TCB

GRANT OF EQUIPMENT
AUTHORIZATION

TCB

Certification
Issued Under the Authority of the
Federal Communications Commission
By:

PHOENIX TESTLAB GmbH
Koenigswinkel 10
D-32825 Blomberg,
Germany

Date of Grant: 05/20/2011
Application Dated: 05/20/2011

SEWEURODRIVE GmbH & Co KG
Ernst-Blickle-Straße 42
Bruchsal, 76646
Germany

Attention: Joerg Jahn , Head of Quality Management

NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is
VALID ONLY for the equipment identified hereon for use under the Commission's
Rules and Regulations listed below.

FCC IDENTIFIER: VEB-NKRDCA82
Name of Grantee: SEW-EURODRIVE GmbH & Co KG
Equipment Class: Digital Transmission System
Notes: WLAN Module 17966167
Modular Type: Limited Single Modular

Grant Notes	FCC Rule Parts	Frequency Range (MHz)	Output Watts	Frequency Tolerance	Emission Designator
CC	15C	2412.0 - 2462.0	0.363		
CC	15C	5745.0 - 5825.0	0.38		

Output power listed is conducted. Limited Modular Approval for mobile RF Exposure conditions. The end product must be professionally installed on a fixed or permanent structure with a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. Marketing to the General Public is prohibited. Approval is limited to OEM integration with final product subject to professional installation only. OEM integrators must be provided with antenna installation instructions. OEM integrators, installers and Users must be provided with transmitter operation conditions for satisfying RF exposure compliance. Only those antenna(s) tested with the device or similar antenna(s) with equal or lesser gain may be used with this transmitter. Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

Class II Permissive Change adds new antennas as documented in this filing.

CC: This device is certified pursuant to two different Part 15 rules sections.

5743732107

25883348/SK – 08/2018

TCB

GRANT OF EQUIPMENT
AUTHORIZATION

TCB

Certification

Issued Under the Authority of the
Federal Communications Commission

By:

PHOENIX TESTLAB GmbH
Koenigswinkel 10
D-32825 Blomberg,
Germany

Date of Grant: 05/20/2011

Application Dated: 05/20/2011

SEW-EURODRIVE GmbH & Co KG
Ernst-Blickle-Straße 42
Bruchsal, 76646
Germany

Attention: Joerg Jahn , Head of Quality Management

NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is
VALID ONLY for the equipment identified hereon for use under the Commission's
Rules and Regulations listed below.FCC IDENTIFIER: VEB-NKRDCA82
Name of Grantee: SEW-EURODRIVE GmbH & Co KG
Equipment Class: Unlicensed National Information Infrastructure TX
Notes: WLAN Module 17966167
Modular Type: Limited Single Modular

Grant Notes	FCC Rule Parts	Frequency Range (MHz)	Output Watts	Frequency Tolerance	Emission Designator
CC	15E	5180.0 - 5240.0	0.03		

Output power listed is conducted. Limited Modular Approval for mobile RF Exposure conditions. The end product must be professionally installed on a fixed or permanent structure with a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. Marketing to the General Public is prohibited. Approval is limited to OEM integration with final product subject to professional installation only. OEM integrators must be provided with antenna installation instructions. OEM integrators, installers and Users must be provided with transmitter operation conditions for satisfying RF exposure compliance. Only those antenna(s) tested with the device or similar antenna(s) with equal or lesser gain may be used with this transmitter. Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

Class II Permissive Change adds new antennas as documented in this filing.

CC: This device is certified pursuant to two different Part 15 rules sections.

9007204998475019



TECHNICAL APPROVAL CERTIFICATE

based on the Agreement on Mutual Recognition
between the European Community and Canada

CERTIFICAT D'APPROBATION TECHNIQUE

en se basant l'accord de reconnaissance mutuelle
entre la Communauté Européenne et le Canada

CERTIFICATE NUMBER
NUMÉRO DE CERTIFICAT

11-111713

CERTIFICATION NUMBER
NUMÉRO DE CERTIFICATION

IC: 7177A-DCMA82

TYPE OF SERVICE
TYPE DE SERVICE

Modification / Modular Approval

CERTIFICATE HOLDER
TITULAIRE DU CERTIFICAT

SEW-EURODRIVE GmbH & Co KG
Ernst-Blickle-Str. 42
76646 - Bruchsal
Germany

TYPE OF EQUIPMENT
GENRE DE MATÉRIEL

WLAN MODULE

TRADE NAME AND MODEL NUMBER
MARQUE ET NUMÉRO DE MODÈLE

SEW-EURODRIVE GmbH & Co KG / 1 796 616 7

FREQUENCY RANGE
BANDE DE FRÉQUENCES

2412 – 2462 MHz 4942 – 4988 MHz 5180 – 5240 MHz
5760 – 5800 MHz 5745 – 5825 MHz

EMISSION DESIGNATION (TRC-43)
DÉSIGNATION D'ÉMISSION (CRT-43)

34M2D1D 19M9D1D 37M9D1D
34M7D1D 18M3D1D

R.F. POWER RATING (WATT)
PUISSANCE NOMINALE H.F. (WATT)

0.363 W 0.476 W 0.030 W
0.380 W 0.363 W

ANTENNA INFORMATION
INFORMATION D'ANTENNE

External Antenna 13003326 (Gain 2.7dBi / 2.4 GHz)
External Antenna 18231942 (Gain 3.7dBi / 5 GHz)
External Antenna 18235840 (Gain 0.0dBi / 5 GHz)
External Antenna TW-145 (Gain 2.0dBi / 2.4 GHz, 5 GHz)

CONTACT INFORMATION OF TESTING LABORATORY
COORDONNÉES DU LABORATOIRE D'ESSAI

mikes-testingpartners gmbh
Ohmstrasse 2-4
94342 Straßkirchen
Germany

CERTIFIED TO
CERTIFIÉ SELON LE

SPECIFICATION / ISSUE
CAHIER DES CHARGES / ÉDITION

RSS-210 Issue 8, RSS-GEN Issue 3
RSS-102 Issue 4, RSS-111 Issue 3

Certification of equipment means only that the equipment has met the requirements of the above noted specification. License applications, where applicable to use certified equipment, are acted on accordingly by the issuing office and will depend on the existing radio environment, service and location of operation. This certificate is issued on condition that the holder complies and will continue to comply with the requirements of the radio standards specifications and procedures issued by the Department.

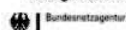
La certification du matériel signifie seulement que le matériel a satisfait aux exigences de la norme indiquée ci-dessus. Les demandes de licences nécessaires pour l'utilisation du matériel certifié sont traitées en conséquence par le bureau de délivrance et dépendent des conditions radio ambiantes, du service et de l'emplacement d'exploitation. Le présent certificat est décerné à la condition que le titulaire satisfasse et continue de satisfaire aux exigences aux procédures d'Industry Canada.

Labelling of Certified Radio Equipment: Equipment that has received certification but is not labelled with the applicant's name, model number and the certification number as outlined above is not considered certified.

Étiquetage du matériel radio homologué: Le matériel pour lequel une certification a été obtenue mais qui n'est pas étiqueté conformément aux exigences ci-dessus (nom du requérant, numéro de modèle et numéro de certification) n'est pas considéré comme certifié.

Certification Body Code: DE0003

recognised by



Bundesnetzagentur

Blomberg, 21 June 2011

Signed by / Signataire Bernd Selck
Foreign Certification Body (FCB)

Blomberg CAB-04-02-03

PHOENIX TESTLAB GmbH • Königswinkel 10 D-32825 Blomberg, Germany • Phone: +49 (0)5235-9500-0 • Fax: +49 (0) 5235-9500-10
<http://www.phoenix-testlab.de>

5743730187

25883348/SK – 08/2018

7.5 India


GOVERNMENT OF INDIA
MINISTRY OF COMMUNICATIONS
DEPARTMENT OF TELECOMMUNICATION
WESTERN REGIONAL LICENCE OFFICE
Gorai Road, Borivali (W), Mumbai- 400 091.



No-L-14041/01/2012/ETA/2012 Dated: 07/05/2012

ETA CERTIFICATE NO : 1958/2012/WRLO

Equipment Type Approval is hereby granted for under mentioned equipment for operation with following parameters/conditions.

I. Details of Applicant and parameters of Equipment:

1	Name of Applicant	SEW Eurodrive India Pvt. Ltd. – Baroda
2	Equipment	WLAN 2.4 & 5 GHz (WLAN-Karte_MPCI-DCMA-82-MMCX)
3	Model No	1796 6167
4	Manufactured by	SEW Eurodrive GmbH & Co KG – Germany
5	Frequency Range (in MHz)	5150 ~ 5350 MHz ; 5745 ~ 5850 MHz
6	Max. Output Power	5150 ~ 5350 MHz : 22.3 dBm 5745 ~ 5850 MHz : 18.8 dBm
7	Type of Modulation	OFDM
8	Remarks if any	-

II. Conditions :-

1. This approval will not be valid in case any changes in the above parameters and not conforming to the notification GSR No. 46(E) dated 28/01/2005 and amended from time to time
2. The use of such equipment has been exempted from licensing requirement vide Gazette Notification GSR No. 46(E) dated 28th January 2005 (Max. Mean Effective Isotropic Radiated Power of 200mW) amended time to time and on non-interference and non-protection (non-exclusive) basis.
3. Use of such equipment in case not conforming to above notification will require a specific wireless licence and also, if applicable, fulfilment of specific service licence as required from this Ministry / Department.

III. Note:

1). This is a clearance from technical angle only. Separate Import License is required to be obtained for each import as per WPC procedures
Record of all equipment imported and their distributions needs to be maintained



(Anil Kumar)
Joint Wireless Advisor
संयुक्त बेतार सलाहकार, इलेक्ट्रॉनिक्स
Joint Wireless Advisor, W P C
संचार एवं सूचना प्रौद्योगिकी मंत्रालय
Ministry of Communication & IT
सेवा विभाग, दूरसंचार विभाग, मुंबई

13103961995



GOVERNMENT OF INDIA
MINISTRY OF COMMUNICATIONS
DEPARTMENT OF TELECOMMUNICATION
WESTERN REGIONAL LICENCE OFFICE
Gorai Road, Borivali (W), Mumbai- 400 091.



No-L-14041/01/2012/ETA/2012 Dated: 03 / 05 / 2012

ETA CERTIFICATE NO : 1957 /2012/WRLO

Equipment Type Approval is hereby granted for under mentioned equipment for operation with following parameters/conditions.

I. Details of Applicant and parameters of Equipment:

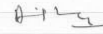
1	Name of Applicant	SEW Eurodrive India Pvt. Ltd. – Baroda
2	Equipment	WLAN 2.4 & 5 GHz (WLAN-Karte MPC1-DCMA-82-MMCX)
3	Model No	1796 6167
4	Manufactured by	SEW Eurodrive GmbH & Co KG – Germany
5	Frequency Range (in MHz)	2400-2483.5 MHz
6	Max. Output Power	19.9 dBm
7	Type of Modulation	DSSS ; OFDM
8	Remarks if any	-

II. Conditions :-

1. This approval will not be valid in case any changes in the above parameters and not conforming to the notification GSR No. 45(E) dated 28/01/2005 and amended from time to time
2. The use of such equipment has been exempted from licensing requirement vide Gazette Notification GSR No. 45(E) dated 28/01/2005 (Max. Mean Effective Isotropic Radiated Power of 36 dBm) and amended time to time and on non-interference and non-protection (non-exclusive) basis.
3. Use of such equipment in case not conforming to above notification will require a specific wireless licence and also, if applicable, fulfilment of specific service licence as required from this Ministry / Department.

III. Note:

- 1) This is a clearance from technical angle only. Separate Import License is required to be obtained for each import as per WPC procedures
- 2) Record of all equipment imported and their distributions needs to be maintained


 (Anil Kumar)
 Joint Wireless Advisor
 संयुक्त बेतार सलाहकार, डब्ल्यू पी सी
 Joint Wireless Advisor, W P C
 संचार एवं सूचना प्रौद्योगिकी मंत्रालय
 Ministry of Communication & IT

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25883348/SK – 08/2018

7.6 Mexiko

INSTITUTO FEDERAL DE TELECOMUNICACIONES		UNIDAD DE SERVICIOS A LA INDUSTRIA DIRECCION GENERAL DE REDES DE TELECOMUNICACIONES Y SERVICIOS	
CERTIFICADO DE HOMOLOGACION			
Clase: DEFINITIVO			
Número: RCPSE1712-1432			
ALFONSO SANTOYO MORALES REPRESENTANTE LEGAL DE SEW EURODRIVE MEXICO, S.A. DE C.V. Tequisquiapan No. 102 Col. Parque Industrial Queretaro C.P. 76220, Queretaro, Queretaro			
Fecha de emisión: 17 de enero de 2014		Oficio respuesta a solicitud: IFT/D03/USI/DGRTS/0526/2014	
Equipo: RADIO CONVERTIDOR ETHERNET			
Marca: SEW		Modelo: 1796 6167 WLAN Karte MPC1-DCMA-82-MMCX	
Perito(s) en Telecomunicaciones : Ing. Tomás Salazar Morán (596), Ing. Ernesto Sareña Martínez (598)			
Organismo de Certificación: NORMALIZACION Y CERTIFICACION ELECTRONICA S.C. (NYCE)			
Tipo De Certificado: Certificado de Conformidad de producto nuevo en la modalidad prueba de tipo más seguimiento		Número: NYCE/CT/0609/12/TS	
CUMPLIMIENTO NORMATIVO			
NOM-121-SCT1-2009			
Banda de frecuencias: 2400 - 2483.5 MHz Densidad espectral de potencia del transmisor: -13.671 dBm/3kHz Potencia pico máxima de salida: 987.715 E-6 W Anchura de banda de RF a 6 dB: 753 kHz Atenuación a emisiones no esenciales: 36.091 / 28.725 dB Emisiones no esenciales radiadas: 173.4 uV/m			
CARACTERISTICAS TECNICAS			
Banda de frecuencias		5150 - 5250 MHz, 5250 - 5350 MHz 5470 - 5600 MHz, 5650 - 5725 MHz	
Medio Inalámbrico		OFDM, BPSK, QPSK, QAM, 64QAM	
Potencia de salida		22 dBm	
Número de canales		12 canales	
Dictaminó:  ARTURO CUBILLAS DOMÍNGUEZ	Revisó: El Director de Homologación  ING. ANGEL AGUILAR LOPEZ	Autorizó: El Director General  ING. GERARDO LOPEZ MOCTEZUMA	
El presente Certificado está sujeto a las condiciones y notas descritas al reverso de la hoja 1.			
hoja 1 de 1			

13103966091

25883348/SK - 08/2018

7.7 Thajsko

ภาคผนวก ข

Supplier's Declaration of Conformity (SDoC) Format

สำนักงานคณะกรรมการกิจการโทรคมนาคมแห่งชาติ

แบบรับรองตนเองของผู้ประกอบการ
(Supplier's Declaration of Conformity)

1. รายละเอียดของผู้ประกอบการ

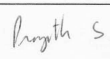
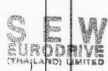
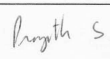
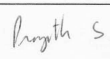
1.1	ชื่อหน่วยงาน	SEW-EURODRIVE (THAILAND) LTD.
1.2	ที่อยู่	700/456 Moo 7 Donhuaroh, Muang District, Chonburi 20000

2. รายละเอียดของเครื่องโทรคมนาคมและอุปกรณ์

2.1	ประเภทชนิดของเครื่องโทรคมนาคมและอุปกรณ์	WLAN-Karte #MPCI-DCMA-82-MMCX
2.2	ตราอักษร (brand name)	2.3 แบบ/รุ่น (model) SEW-EURODRIVE WLAN-Karte #MPCI-DCMA-82-MMCX
2.4	มาตรฐานทางเทคนิคหรือข้อกำหนดทางเทคนิคที่แสดงความสอดคล้อง	

ข้าพเจ้าขอรับรองว่า เครื่องโทรคมนาคมและอุปกรณ์ข้างต้น มีความสอดคล้องตามมาตรฐานทางเทคนิคหรือข้อกำหนดทางเทคนิคของคณะกรรมการกิจการโทรคมนาคมแห่งชาติ ตามที่ระบุไว้

3. เอกสารหลักฐานประกอบการรับรองตนเอง

1. SDoc 2. Operating description 3. Test report no.: T34715-00-00AA_328 T34715-00-01AA_301893 T34715-04-01KG T37644-01-00GK EN300328	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">ลงชื่อ</td> <td>  (นายประยุทธ์ ศรีสุพรรณทอง) ผู้อำนวยการแผนก </td> </tr> <tr> <td>ตำแหน่ง</td> <td>Managing Director</td> </tr> <tr> <td>วันที่</td> <td></td> </tr> </table> 	ลงชื่อ	 (นายประยุทธ์ ศรีสุพรรณทอง) ผู้อำนวยการแผนก	ตำแหน่ง	Managing Director	วันที่	
ลงชื่อ	 (นายประยุทธ์ ศรีสุพรรณทอง) ผู้อำนวยการแผนก						
ตำแหน่ง	Managing Director						
วันที่							

ผู้ประกอบการจะต้องจัดแบบรับรองตนเองที่กระทำการละเมิดครบถ้วนสมบูรณ์ ให้สำนักงานคณะกรรมการกิจการโทรคมนาคมแห่งชาติ และเก็บรักษาสำเนาแบบรับรองตนเองพร้อมเอกสารหลักฐานประกอบการรับรองตนเอง เพื่อใช้ประกอบการตรวจติดตามของสำนักงาน ตามมาตรการกำกับดูแลเครื่องโทรคมนาคมและอุปกรณ์ภายใต้การตรวจชอบและรับรองมาตรฐาน และตามกฎหมายอื่น (ถ้ามี)

16389904523

7.8 Juhoafrická republika



Independent Communications Authority of South Africa
Pinmill Farm, 164 Katherine Street, Sandton
Private Bag X10002, Sandton, 2146

Radio Equipment Type Approval Certificate
Radio Equipment Type Approval Number

TA-2017/1895

The Authority, in the exercise of the power conferred upon it by section 35 (1) of the Electronic Communications Act, 2005 (Act No. 36 of 2005), the applicable radio regulations which currently remain in force in terms of section 95 (2) of the Electronic Communication Act and subject to the terms and conditions set out in this document (see overleaf), hereby issues a radio type approval certificate to the company whose name and particulars are listed below.

Company Particulars

NAME : SEW-EURODRIVE (PTY) LTD

STREET ADDRESS : EURODRIVE HOUSE CNR, ADCKOCK INGRAM & AERODROME RD, AEROTON

TEL. NUMBER : 826171058

EMAIL : ROBERMEYER@SEW.CO.ZA

REGISTRATION NUMBER : 1986/003901/07

Description of Apparatus

EQUIPMENT CATEGORY : WLAN CARD

EQUIPMENT MODEL : MPC1-DCMA-82-MMCX

FREQUENCY RANGE : 2400-2483.5MHz, 5150 -5250MHz, 5250 - 5350MHz, 5470 - 5725 MHz

ITU EMISSION CODE : D1D, G1D

MODULATION : DSSS, OFDM

POWER OUTPUT : 20 dBm

CHANNEL SPACING : 5 MHz

FEATURES : 802.11a/g

2017-09-22

Only the original or a certified copy of the radio equipment type approval certificate shall be considered valid.

Kopano Monyetsane
Senior Manager: Type
Approval and Numbering



P Mashile, K Modimoeng, BC Mokhele, PJ Zimiri (Councillors), WA Ngwepe (Acting CEO)

22316619787

25883348/SK – 08/2018

7.9 Maroko

ANRT
Agence Nationale de Réglementation des Télécommunications

DIRECTION TECHNIQUE
N/Réf. : ANRT/DEC/DAA/SAG/OR/743/2017.

Rabat, le 15 SEP. 2017

CERTIFICAT D'AGRÈMENT

- VU LA LOI N° 24-96 RELATIVE À LA POSTE ET AUX TÉLÉCOMMUNICATIONS TELLE QU'ELLE A ÉTÉ MODIFIÉE ET COMPLÉTÉE ;
- VU LA DÉCISION ANRT/DG/N°12/04 DU 29/12/2004 FIXANT LE RÉGIME D'AGRÈMENT DES ÉQUIPEMENTS TERMINAUX ET DES INSTALLATIONS RADIOÉLECTRIQUES TELLE QUE COMPLÉTÉE PAR LA DÉCISION ANRT/DG/N°06/06 DU 28 JUILLET 2006 ;
- VU LA DÉCISION ANRT/DG/N°04/14 DU 17 FÉVRIER 2014 FIXANT LES SPÉCIFICATIONS TECHNIQUES D'AGRÈMENT DES ÉQUIPEMENTS TERMINAUX ET DES INSTALLATIONS RADIOÉLECTRIQUES ;
- VU LA DÉCISION ANRT/DG/N°08/13 DU 20 JUIN 2013 FIXANT LES CONDITIONS TECHNIQUES D'UTILISATION DES INSTALLATIONS RADIOÉLECTRIQUES COMPOSÉES D'APPAREILS DE FAIBLE PUISSANCE ET DE FAIBLE PORTÉE (A2FP) TELLE QU'ELLE A ÉTÉ MODIFIÉE ET COMPLÉTÉE PAR LA DÉCISION ANRT/DG/N°04/16 DU 19 SEPTEMBRE 2016 ;
- VU L'ENGAGEMENT DE CONFORMITÉ AUX SPÉCIFICATIONS TECHNIQUES DÉCLARÉES DÉPOSÉ LORS DE LA DEMANDE.

L'ANRT DÉCIDE D'ACCORDER L'AGRÈMENT À L'ÉQUIPEMENT DÉSIGNÉ CI-DESSOUS :

DÉSIGNATION	CARTE SANS FIL WiFi 802.11 a/b/g/n	N° D'AGRÈMENT	MR 14742 ANRT 2017
MARQUE	SEW-EURODRIVE	DÉLIVRÉ LE	15/09/2017
TYPE	#MPCI-DCMA-82-MMCX	EXPIRE LE	14/09/2027
FABRICANT	SEW-EURODRIVE GmbH & Co KG		

CARACTÉRISTIQUES TECHNIQUES :

BANDES DE FRÉQUENCES	ÉMISSION	RÉCEPTION
	[2400 - 2483,5] MHz	[2400 - 2483,5] MHz
	[5150 - 5350] MHz	[5150 - 5350] MHz

PUISSANCE ISOTROPIQUE RAYONNÉE ÉQUIVALENTE: 18,4 dBm (WiFi 2,4GHz) ; 22,8dBm (WiFi 5GHz)

SPÉCIFICATIONS TECHNIQUES APPLICABLES :

INTERFACES SOUMISES À L'AGRÈMENT	ASPECT TÉLÉCOMMUNICATIONS	COMPATIBILITÉ ÉLECTROMAGNÉTIQUE	SÉCURITÉ ÉLECTRIQUE	EXPOSITION AUX RAYONNEMENTS ÉLECTROMAGNÉTIQUES
RADIOÉLECTRIQUE 2,4GHz	ANRT-STA/IR-A2FP-2,4GHz	EN 301 489-1/3/17	EN 60950	EN 62311
RADIOÉLECTRIQUE 5GHz	ANRT-STA/IR-A2FP-5GHz			

CONDITIONS DE COMMERCIALISATION :

- LES PERSONNES, PHYSIQUES OU MORALES, QUI SOUHAITENT COMMERCIALISER LES INTERFACES RADIOÉLECTRIQUES **WiFi** PRÉSENTES DANS LE MATÉRIEL OBJET DU PRÉSENT CERTIFICAT DOIVENT :
 - DÉPOSER, AU PRÉALABLE, UNE DEMANDE AUPRÈS DE L'ANRT, ACCOMPAGNÉE D'UN ENGAGEMENT D'ÊTRE REMPLI, CONFORMÉMENT À LA DÉCISION ANRT/DG/N°08/13 SUSMENTIONNÉE ;
 - TENIR À JOUR UN REGISTRE COMPORTANT LES INFORMATIONS DEMANDÉES PAR LADITE DÉCISION.

CONDITIONS D'USAGE :

- LE PRÉSENT CERTIFICAT D'AGRÈMENT NE REMPLACE PAS LES ACCORDS, AUTORISATIONS ET AGRÈMENTS CORRESPONDANTS QUI DOIVENT ÊTRE SOLlicitÉS ET OBTENUS AUPRÈS DES AUTORITÉS CONCERNÉES CONFORMÉMENT À LA RÉGLEMENTATION EN VIGUEUR.
- L'UTILISATION DES INTERFACES RADIOÉLECTRIQUES **WiFi** PRÉSENTES DANS LE MATÉRIEL OBJET DU PRÉSENT CERTIFICAT EST LIBRE SOUS RÉSERVE DU RESPECT DES CONDITIONS D'EXPLOITATIONS PRÉCISÉES DANS LES DÉCISIONS SUSMENTIONNÉES RÉGISSANT L'USAGE DES APPAREILS DE FAIBLE PORTÉE ET FAIBLE PUISSANCE (A2FP).
- TOUTE MODIFICATION QUE SUBIT CE MATÉRIEL POSTÉRIEUREMENT À SON AGRÈMENT, NOTAMMENT AU NIVEAU DE SES CARACTÉRISTIQUES TECHNIQUES, CE MATÉRIEL DEVRA ÊTRE SOUMIS À UN NOUVEAU AGRÈMENT.
- EN CAS DE CHANGEMENT À LA RÉGLEMENTATION EN VIGUEUR, RENDANT NÉCESSAIRE D'APPORTER DES MODIFICATIONS AU PRÉSENT ÉQUIPEMENT OU À LA PROCÉDURE APPLICABLE POUR SON USAGE OU SON AGRÈMENT, VOTRE SOCIÉTÉ SERA TENUE DE S'Y CONFORMER.
- EN CAS D'INFRACTION À LA RÉGLEMENTATION EN VIGUEUR, CET AGRÈMENT PEUT ÊTRE SUSPENDU OU RETIRÉ. VOTRE SOCIÉTÉ EST PASSIBLE DES SANCTIONS PRÉVUES PAR LA RÉGLEMENTATION EN VIGUEUR.

CERTIFICAT D'AGRÈMENT ACCORDÉ À :

RAISON SOCIALE : EMEA CONSULTING SERVICES
ADRESSE : App.N9 IMM 4 AVENUE IBN MAJA, FES.

Agence Nationale de Réglementation des Télécommunications
ANRT

Signature: Mohamed YASSINE
Chef du Service Agréments Par Interim

ANRT
Bordj Boukhari, BP 44, Rabat,
Maroc 30500
Téléphone : (05) 37 75 84 15
Télécopie : (05) 3 37 30 38 62
www.anrt.ma

21660110219

Prevádzka s externými anténami (pozri kapitolu "Antény" (→ 9)) vyžaduje, že prevádzkovateľ si musí sám vyžiadať licenci (udelenie výnimky) na schvaľujúcom úrade (Agence Nationale de Réglementation des Télécommunications, www.anrt.ma).

25883348/SK – 08/2018

7.10 Saudská Arábia



هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission

شهادة مطابقة Conformity Certificate

Certificate No: TA 16012018-16012020-21913 رقم الشهادة :

Applicant Information			معلومات مقدم الطلب
Applicant:	EMEA Consulting Services		اسم الجهة :
Certificate Details			بيانات الشهادة
Issue Date:	16/01/2018	1439/04/29	تاريخ الاصدار :
Validity Period:	16/01/2020	1441/05/21	تاريخ الانتهاء :
Device Details			بيانات الجهاز
Product Name:	WLAN Card		اسم المنتج :
Product Model:	#MPCI-DCMA-82-MMCX		موديل المنتج :
Manufacturer:	SEW-EURODRIVE GmbH & CO. KG		المصنع :
Additional Details			معلومات اضافية
Operating Frequency : Maximum Output Power allowed (EIRP) :	2400-2483.5 MHz:19.9 dBm 5150-5350 MHz:22.3 dBm 5470-5725 MHz:22.8 dBm		الترددات المستخدمة : وطاقة الخرج القصوى المسموحة
Device comply with CITC technical Specification No.:	RI045		الجهاز مطابق لمواصفات الهيئة رقم :
Additional Requirement			متطلبات اضافية



يمكن التحقق من صحة وصلاحيه هذه الشهادة من خلال زيارة الرابط اثناء في
الموقع الإلكتروني لهيئة الاتصالات وتقنية المعلومات
عن طريق استخدام
أو الرمز التالي :

<http://ers.citc.gov.sa>



اعتماد الشهادة

بناءً على نظام الاتصالات الصادر بالمرسوم الملكي ذي الرقم (12/م) والتاريخ 1422/03/12 هـ ولانته التفتيشية، وبموجب تنظيم هيئة الاتصالات وتقنية المعلومات بقرار
مجلس الوزراء رقم (74) والتاريخ 1422/03/05 هـ، فقد أصدرت الهيئة هذه الوثيقة بخصوص مطابقة الجهاز المشار إليه أعلاه، علماً بأن هذه الوثيقة لا تعتبر موافقة على فتح
الأجهزة المشار إليها أعلاه أو الترخيص باستخدامها، بل هي شهادة مطابقة للمواصفات الفنية المعمول بها بالهيئة. كما أن هذه الشهادة قد صدرت عن الهيئة بناءً على المعلومات
المتاحة لها والتي وفرتها الجهة المستوردة أو المصنعة وقت صدور هذه الشهادة، ولا يجوز استخدام أو حيازة الأجهزة أو المتاجرة بها بصورة تخالف أحكام وأنظمة هيئة الاتصالات
وتقنية المعلومات والأنظمة الأخرى ذات العلاقة المعمول بها في المملكة، وتتحمل الجهة المستوردة أو المصنعة وحدها المسؤولية عن أية أضرار أو خسائر أو إصابات قد تنشأ عن
حيازة أو استخدام هذه الأجهزة أو المتاجرة بها، وفي حال كون الأجهزة مصنعة خارج المملكة فإنه يجب التقدم إلى الهيئة من قبل المستورد بطلب لفصح الأجهزة قبل وقت وصولها
إلى أحد المنافذ الجمركية.

8 MAXOLUTION® Competence Center

Nemecko

Bruchsal	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 42 76646 Bruchsal	Tel. +49 7251 75-0 Fax +49 7251 75-1970 http://www.sew-eurodrive.de maxolution@sew-eurodrive.de
Kirchheim	SEW-EURODRIVE GmbH & Co KG Domagkstraße 5 85551 Kirchheim (München)	Tel. +49 89 909552-10 Fax +49 89 909552-50 dtc-sued@sew-eurodrive.de

Austrália

Melbourne	SEW-EURODRIVE PTY. LTD. 27 Beverage Drive Tullamarine, Victoria 3043	Tel. +61 3 9933-1000 Fax +61 3 9933-1003 http://www.sew-eurodrive.com.au enquires@sew-eurodrive.com.au
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Brazília

São Paulo	SEW-EURODRIVE Brasil Ltda. Estrada Municipal José Rubim, 205 – Rodovia Santos Dumont Km 49 Indaiatuba – 13347-510 – SP	Tel. +55 19 3835-8000 sew@sew.com.br
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Čína

Tchien-ťin	SEW-EURODRIVE (Tianjin) Co., Ltd. No. 78, 13th Avenue, TEDA Tianjin 300457	Tel. +86 22 25322612 Fax +86 22 25323273 http://www.sew-eurodrive.cn info@sew-eurodrive.cn
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Francúzsko

Haguenau	SEW-USOCOME 48-54 route de Soufflenheim B. P. 20185 67506 Haguenau Cedex	Tel. +33 3 88 73 67 00 Fax +33 3 88 73 66 00 http://www.usocomme.com sew@usocomme.com
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India

Chennai	SEW-EURODRIVE India Private Limited Plot No. K3/1, Sipcot Industrial Park Phase II Mambakkam Village Sriperumbudur - 602105 Kancheepuram Dist, Tamil Nadu	Tel. +91 44 37188888 Fax +91 44 37188811 saleschennai@seweurodriveindia.com
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Juhoafrická republika

Johannesburg	SEW-EURODRIVE (PROPRIETARY) LIMITED Eurodrive House Cnr. Adcock Ingram and Aerodrome Roads Aeroton Ext. 2 Johannesburg 2013 P.O.Box 90004 Bertsham 2013	Tel. +27 11 248-7000 Fax +27 11 248-7289 http://www.sew.co.za info@sew.co.za
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Južná Kórea

Ansan	SEW-EURODRIVE KOREA CO., LTD. 7, Dangjaengi-ro, Danwon-gu, Ansan-si, Gyeonggi-do, Zip 425-839	Tel. +82 31 492-8051 Fax +82 31 492-8056 http://www.sew-eurodrive.kr master.korea@sew-eurodrive.com
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Poľsko

Tychy	SEW-EURODRIVE Polska Sp.z.o.o. ul. Strzelecka 66 43-109 Tychy	Tel. +48 32 32 32 610 Fax +48 32 32 32 648
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Švédsko

Jönköping	SEW-EURODRIVE AB Gnejsvägen 6-8 553 03 Jönköping Box 3100 S-550 03 Jönköping	Tel. +46 36 34 42 00 Fax +46 36 34 42 80 http://www.sew-eurodrive.se jonkoping@sew.se
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Taliansko

Solaro	SEW-EURODRIVE di R. Blicke & Co.s.a.s. Via Bernini, 14 20020 Solaro (Milano)	Tel. +39 02 96 9801 Fax +39 02 96 79 97 81 http://www.sew-eurodrive.it sewit@sew-eurodrive.it
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USA

Lyman	SEW-EURODRIVE INC. 1295 Old Spartanburg Highway P.O. Box 518 Lyman, S.C. 29365	Tel. +1 864 439-7537 Fax +1 864 439-7830 http://www.seweurodrive.com cslyman@seweurodrive.com
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9 Zoznam adries

Nemecko			
Hlavné zastúpenie Výrobný závod Distribúcia	Bruchsal	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 42 76646 Bruchsal	Tel. +49 7251 75-0 Fax +49 7251 75-1970 http://www.sew-eurodrive.de sew@sew-eurodrive.de
Výrobný závod / Priemyselných prevodoviek	Bruchsal	SEW-EURODRIVE GmbH & Co KG Christian-Pähr-Str. 10 76646 Bruchsal	Tel. +49 7251 75-0 Fax +49 7251 75-2970
Výrobný závod	Graben	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 1 76676 Graben-Neudorf	Tel. +49 7251 75-0 Fax +49 7251-2970
	Östringen	SEW-EURODRIVE GmbH & Co KG, Werk Östringen Franz-Gurk-Straße 2 76684 Östringen	Tel. +49 7253 9254-0 Fax +49 7253 9254-90 oesstringen@sew-eurodrive.de
Service Competence Center	Mechanics / Mechatronics	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 1 76676 Graben-Neudorf	Tel. +49 7251 75-1710 Fax +49 7251 75-1711 scc-mechanik@sew-eurodrive.de
	Elektronika	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 42 76646 Bruchsal	Tel. +49 7251 75-1780 Fax +49 7251 75-1769 scc-elektronik@sew-eurodrive.de
Drive Technology Center	Sever	SEW-EURODRIVE GmbH & Co KG Alte Ricklinger Straße 40-42 30823 Garbsen (Hannover)	Tel. +49 5137 8798-30 Fax +49 5137 8798-55 dtc-nord@sew-eurodrive.de
	Východ	SEW-EURODRIVE GmbH & Co KG Dänkritzer Weg 1 08393 Meerane (Zwickau)	Tel. +49 3764 7606-0 Fax +49 3764 7606-30 dtc-ost@sew-eurodrive.de
	Juh	SEW-EURODRIVE GmbH & Co KG Domagkstraße 5 85551 Kirchheim (München)	Tel. +49 89 909552-10 Fax +49 89 909552-50 dtc-sued@sew-eurodrive.de
	Západ	SEW-EURODRIVE GmbH & Co KG Siemensstraße 1 40764 Langenfeld (Düsseldorf)	Tel. +49 2173 8507-30 Fax +49 2173 8507-55 dtc-west@sew-eurodrive.de
Drive Center	Berlín	SEW-EURODRIVE GmbH & Co KG Alexander-Meißner-Straße 44 12526 Berlin	Tel. +49 306331131-30 Fax +49 306331131-36 dc-berlin@sew-eurodrive.de
	Ludwigshafen	SEW-EURODRIVE GmbH & Co KG c/o BASF SE Gebäude W130 Raum 101 67056 Ludwigshafen	Tel. +49 7251 75 3759 Fax +49 7251 75 503759 dc-ludwigshafen@sew-eurodrive.de
	Saarland	SEW-EURODRIVE GmbH & Co KG Gottlieb-Daimler-Straße 4 66773 Schwalbach Saar – Hülzweiler	Tel. +49 6831 48946 10 Fax +49 6831 48946 13 dc-saarland@sew-eurodrive.de
	Ulm	SEW-EURODRIVE GmbH & Co KG Dieselstraße 18 89160 Dornstadt	Tel. +49 7348 9885-0 Fax +49 7348 9885-90 dc-ulm@sew-eurodrive.de
	Würzburg	SEW-EURODRIVE GmbH & Co KG Nürnbergerstraße 118 97076 Würzburg-Lengfeld	Tel. +49 931 27886-60 Fax +49 931 27886-66 dc-wuerzburg@sew-eurodrive.de
Drive Service Hotline / 24-hodinová telefonická pohotovostná služba			0 800 SEWHELP 0 800 7394357
Francúzsko			
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Francúzsko

Montážny závod Distribúcia Servis	Bordeaux	SEW-USOCOME Parc d'activités de Magellan 62 avenue de Magellan – B. P. 182 33607 Pessac Cedex	Tel. +33 5 57 26 39 00 Fax +33 5 57 26 39 09
	Lyon	SEW-USOCOME 75 rue Antoine Condorcet 38090 Vaulx-Milieu	Tel. +33 4 74 99 60 00 Fax +33 4 74 99 60 15
	Nantes	SEW-USOCOME Parc d'activités de la forêt 4 rue des Fontenelles 44140 Le Bignon	Tel. +33 2 40 78 42 00 Fax +33 2 40 78 42 20
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Montážny závod Distribúcia	Buenos Aires	SEW EURODRIVE ARGENTINA S.A. Ruta Panamericana Km 37.5, Lote 35 (B1619IEA) Centro Industrial Garín Prov. de Buenos Aires	Tel. +54 3327 4572-84 Fax +54 3327 4572-21 http://www.sew-eurodrive.com.ar sewar@sew-eurodrive.com.ar
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Austrália

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	Sydney	SEW-EURODRIVE PTY. LTD. 9, Sleigh Place, Wetherill Park New South Wales, 2164	Tel. +61 2 9725-9900 Fax +61 2 9725-9905 enquires@sew-eurodrive.com.au

Bangladéš

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Bielorusko

Distribúcia	Minsk	Foreign unitary production enterprise SEW-EURODRIVE RybalkoStr. 26 220033 Minsk	Tel. +375 17 298 47 56 / 298 47 58 Fax +375 17 298 47 54 http://www.sew.by sales@sew.by
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Brazília

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Bulharsko			
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	Drive Service Hotline / 24- hodinová te- lefonická poho- tovostná služ- ba	+420 800 739 739 (800 SEW SEW)	Servis Tel. +420 255 709 632 Fax +420 235 358 218 servis@sew-eurodrive.cz
Chorvátsko			
Distribúcia Servis	Záhreb	KOMPEKS d. o. o. Zeleni dol 10 10 000 Zagreb	Tel. +385 1 4613-158 Fax +385 1 4613-158 kompeks@inet.hr
Čile			
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Čína			
Výrobný závod Montážny závod Distribúcia Servis	Tchien-ťin	SEW-EURODRIVE (Tianjin) Co., Ltd. No. 78, 13th Avenue, TEDA Tianjin 300457	Tel. +86 22 25322612 Fax +86 22 25323273 http://www.sew-eurodrive.cn info@sew-eurodrive.cn
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	Shenyang	SEW-EURODRIVE (Shenyang) Co., Ltd. 10A-2, 6th Road Shenyang Economic Technological Develop- ment Area Shenyang, 110141	Tel. +86 24 25382538 Fax +86 24 25382580 shenyang@sew-eurodrive.cn
	Taiyuan	SEW-EURODRIVE (Taiyuan) Co., Ltd. No.3, HuaZhang Street, TaiYuan Economic & Technical Development Zone ShanXi, 030032	Tel. +86-351-7117520 Fax +86-351-7117522 taiyuan@sew-eurodrive.cn
	Wu-chan	SEW-EURODRIVE (Wuhan) Co., Ltd. 10A-2, 6th Road No. 59, the 4th Quanli Road, WEDA 430056 Wuhan	Tel. +86 27 84478388 Fax +86 27 84478389 wuhan@sew-eurodrive.cn
	Si-an	SEW-EURODRIVE (Xi'an) Co., Ltd. No. 12 Jinye 2nd Road Xi'an High-Technology Industrial Development Zone Xi'an 710065	Tel. +86 29 68686262 Fax +86 29 68686311 xian@sew-eurodrive.cn
Distribúcia Servis	Hong Kong	SEW-EURODRIVE LTD. Unit No. 801-806, 8th Floor Hong Leong Industrial Complex No. 4, Wang Kwong Road Kowloon, Hong Kong	Tel. +852 36902200 Fax +852 36902211 contact@sew-eurodrive.hk

Dánsko			
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Egypt			
Distribúcia Servis	Káhira	Copam Egypt for Engineering & Agencies Building 10, Block 13005, First Industrial Zone, Obour City Cairo	Tel. +202 44812673 / 79 (7 lines) Fax +202 44812685 http://www.copam-egypt.com copam@copam-egypt.com
Estónsko			
Distribúcia	Tallin	ALAS-KUUL AS Reti tee 4 75301 Peetri küla, Rae vald, Harjumaa	Tel. +372 6593230 Fax +372 6593231 http://www.alas-kuul.ee veiko.soots@alas-kuul.ee
Filipíny			
Distribúcia	Makati	P.T. Cerna Corporation 4137 Ponte St., Brgy. Sta. Cruz Makati City 1205	Tel. +63 2 519 6214 Fax +63 2 890 2802 mech_drive_sys@ptcerna.com http://www.ptcerna.com
Fínsko			
Montážny závod Distribúcia Servis	Hollola	SEW-EURODRIVE OY Vesimäentie 4 15860 Hollola	Tel. +358 201 589-300 Fax +358 3 780-6211 http://www.sew-eurodrive.fi sew@sew.fi
Servis	Hollola	SEW-EURODRIVE OY Keskikankaantie 21 15860 Hollola	Tel. +358 201 589-300 Fax +358 3 780-6211 http://www.sew-eurodrive.fi sew@sew.fi
	Tornio	SEW-EURODRIVE Oy Lossirannankatu 5 95420 Tornio	Tel. +358 201 589 300 Fax +358 3 780 6211 http://www.sew-eurodrive.fi sew@sew.fi
Výrobný závod Montážny závod	Karkkila	SEW Industrial Gears Oy Santasalonkatu 6, PL 8 03620 Karkkila, 03601 Karkkila	Tel. +358 201 589-300 Fax +358 201 589-310 http://www.sew-eurodrive.fi sew@sew.fi
Gabon			
Distribúcia	Libreville	SEW-EURODRIVE SARL 183, Rue 5.033.C, Lalala à droite P.O. Box 15682 Libreville	Tel. +241 03 28 81 55 +241 06 54 81 33 http://www.sew-eurodrive.cm sew@sew-eurodrive.cm
Grécko			
Distribúcia	Atény	Christ. Boznos & Son S.A. 12, K. Mavromichali Street P.O. Box 80136 18545 Piraeus	Tel. +30 2 1042 251-34 Fax +30 2 1042 251-59 http://www.boznos.gr info@boznos.gr
Holandsko			
Montážny závod Distribúcia Servis	Rotterdam	SEW-EURODRIVE B.V. Industrieweg 175 3044 AS Rotterdam Postbus 10085 3004 AB Rotterdam	Tel. +31 10 4463-700 Fax +31 10 4155-552 Servis: 0800-SEWHELP http://www.sew-eurodrive.nl info@sew-eurodrive.nl
India			
Sídlo Montážny závod Distribúcia Servis	Vadodara	SEW-EURODRIVE India Private Limited Plot No. 4, GIDC POR Ramangamdi • Vadodara - 391 243 Gujarat	Tel. +91 265 3045200 Fax +91 265 3045300 http://www.seweurodriveindia.com salesvadodara@seweurodriveindia.com

India			
Montážny závod Distribúcia Servis	Chennai	SEW-EURODRIVE India Private Limited Plot No. K3/1, Sipcot Industrial Park Phase II Mambakkam Village Sriperumbudur - 602105 Kancheepuram Dist, Tamil Nadu	Tel. +91 44 37188888 Fax +91 44 37188811 saleschennai@seweurodriveindia.com
	Pune	SEW-EURODRIVE India Private Limited Plant: Plot No. D236/1, Chakan Industrial Area Phase- II, Warale, Tal- Khed, Pune-410501, Maharashtra	Tel. +91 21 35 628700 Fax +91 21 35 628715 salespune@seweurodriveindia.com
Distribúcia Servis	Gurgaon	SEW-EURODRIVE India Private Limited Drive Center Gurugram Plot no 395, Phase-IV, UdyogVihar Gurugram , 122016 Haryana	Tel. +91 99588 78855 salesgurgaon@seweurodriveindia.com
Indonézia			
Distribúcia	Medan	PT. Serumpun Indah Lestari Jl.Pulau Solor no. 8, Kawasan Industri Medan II Medan 20252	Tel. +62 61 687 1221 Fax +62 61 6871429 / +62 61 6871458 / +62 61 30008041 sil@serumpunindah.com serumpunindah@yahoo.com http://www.serumpunindah.com
	Jakarta	PT. Cahaya Sukses Abadi Komplek Rukan Puri Mutiara Blok A no 99, Sunter Jakarta 14350	Tel. +62 21 65310599 Fax +62 21 65310600 csajkt@cbn.net.id
	Jakarta	PT. Agrindo Putra Lestari Jl.Pantai Indah Selatan, Komplek Sentra Industri Terpadu, Pantai indah Kapuk Tahap III, Blok E No. 27 Jakarta 14470	Tel. +62 21 2921-8899 Fax +62 21 2921-8988 aplindo@indosat.net.id http://www.aplindo.com
	Surabaya	PT. TRIAGRI JAYA ABADI Jl. Sukosemolo No. 63, Galaxi Bumi Permai G6 No. 11 Surabaya 60111	Tel. +62 31 5990128 Fax +62 31 5962666 sales@triagri.co.id http://www.triagri.co.id
	Surabaya	CV. Multi Mas Jl. Raden Saleh 43A Kav. 18 Surabaya 60174	Tel. +62 31 5458589 Fax +62 31 5317220 sianhwa@sby.centrin.net.id http://www.cvmultimas.com
Írsko			
Distribúcia Servis	Dublin	Alperton Engineering Ltd. 48 Moyle Road Dublin Industrial Estate Glasnevin, Dublin 11	Tel. +353 1 830-6277 Fax +353 1 830-6458 http://www.alperton.ie info@alperton.ie
Island			
Distribúcia	Reykjavik	Varma & Vélaverk ehf. Knarrarvogi 4 104 Reykjavik	Tel. +354 585 1070 Fax +354 585)1071 http://www.varmaverk.is vov@vov.is
Izrael			
Distribúcia	Tel-Aviv	Liraz Handasa Ltd. Ahofer Str 34B / 228 58858 Holon	Tel. +972 3 5599511 Fax +972 3 5599512 http://www.liraz-handasa.co.il office@liraz-handasa.co.il
Japonsko			
Montážny závod Distribúcia Servis	Iwata	SEW-EURODRIVE JAPAN CO., LTD 250-1, Shimoman-no, Iwata Shizuoka 438-0818	Tel. +81 538 373811 Fax +81 538 373814 http://www.sew-eurodrive.co.jp sewjapan@sew-eurodrive.co.jp hamamatsu@sew-eurodrive.co.jp

Juhoafrická republika

Montážny závod Distribúcia Servis	Johannesburg	SEW-EURODRIVE (PROPRIETARY) LIMITED Eurodrive House Cnr. Adcock Ingram and Aerodrome Roads Aeroton Ext. 2 Johannesburg 2013 P.O.Box 90004 Bertsham 2013	Tel. +27 11 248-7000 Fax +27 11 248-7289 http://www.sew.co.za info@sew.co.za
	Kapské Mesto	SEW-EURODRIVE (PROPRIETARY) LIMITED Rainbow Park Cnr. Racecourse & Omuramba Road Montague Gardens Cape Town P.O.Box 36556 Chempet 7442	Tel. +27 21 552-9820 Fax +27 21 552-9830 Telex 576 062 bgriffiths@sew.co.za
	Durban	SEW-EURODRIVE (PROPRIETARY) LIMITED 48 Prospecton Road Isipingo Durban P.O. Box 10433, Ashwood 3605	Tel. +27 31 902 3815 Fax +27 31 902 3826 cdejager@sew.co.za
	Nelspruit	SEW-EURODRIVE (PROPRIETARY) LIMITED 7 Christie Crescent Vintonia P.O.Box 1942 Nelspruit 1200	Tel. +27 13 752-8007 Fax +27 13 752-8008 robermeyer@sew.co.za

Južná Kórea

Montážny závod Distribúcia Servis	Ansan	SEW-EURODRIVE KOREA CO., LTD. 7, Dangjaengi-ro, Danwon-gu, Ansan-si, Gyeonggi-do, Zip 425-839	Tel. +82 31 492-8051 Fax +82 31 492-8056 http://www.sew-eurodrive.kr master.korea@sew-eurodrive.com
	Pusan	SEW-EURODRIVE KOREA CO., LTD. 28, Noksansandan 262-ro 50beon-gil, Gangseo-gu, Busan, Zip 618-820	Tel. +82 51 832-0204 Fax +82 51 832-0230

Kamerun

Distribúcia	Douala	SEW-EURODRIVE S.A.R.L. Ancienne Route Bonabéri Adresa poštovej schránky B.P 8674 Douala-Cameroun	Tel. +237 233 39 02 10 Fax +237 233 39 02 10 sew@sew-eurodrive-cm
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Kanada

Montážny závod Distribúcia Servis	Toronto	SEW-EURODRIVE CO. OF CANADA LTD. 210 Walker Drive Bramalea, ON L6T 3W1	Tel. +1 905 791-1553 Fax +1 905 791-2999 http://www.sew-eurodrive.ca l.watson@sew-eurodrive.ca
	Vancouver	SEW-EURODRIVE CO. OF CANADA LTD. Tilbury Industrial Park 7188 Honeyman Street Delta, BC V4G 1G1	Tel. +1 604 946-5535 Fax +1 604 946-2513 b.wake@sew-eurodrive.ca
	Montreal	SEW-EURODRIVE CO. OF CANADA LTD. 2001 Ch. de l'Aviation Dorval Quebec H9P 2X6	Tel. +1 514 367-1124 Fax +1 514 367-3677 n.paradis@sew-eurodrive.ca

Kazachstan

Distribúcia Servis	Alma-Ata	SEW-EURODRIVE LLP 291-291A, Tole bi street 050031, Almaty	Tel. +7 (727) 350 5156 Fax +7 (727) 350 5156 http://www.sew-eurodrive.kz sew@sew-eurodrive.kz
	Taškent	SEW-EURODRIVE LLP Representative office in Uzbekistan 96A, Sharaf Rashidov street, Tashkent, 100084	Tel. +998 71 2359411 Fax +998 71 2359412 http://www.sew-eurodrive.uz sew@sew-eurodrive.uz

Ulanbáatar	IM Trading LLC Olympic street 28B/3 Sukhbaatar district, Ulaanbaatar 14230	Tel. +976-77109997 Fax +976-77109997 imt@imt.mn
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Kolumbia

Montážny závod Distribúcia Servis	Bogotá	SEW-EURODRIVE COLOMBIA LTDA. Calle 17 No. 132-18 Interior 2 Bodega 6, Manzana B Santafé de Bogotá	Tel. +57 1 54750-50 Fax +57 1 54750-44 http://www.sew-eurodrive.com.co sew@sew-eurodrive.com.co
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Libanon

Distribúcia (Libanon)	Bejrút	Gabriel Acar & Fils sarl B. P. 80484 Bourj Hammoud, Beirut	Tel. +961 1 510 532 Fax +961 1 494 971 ssacar@inco.com.lb
Distribúcia (Jordánsko, Bejrút Kuvajt, Saudská Ará- bia, Sýria)		Middle East Drives S.A.L. (offshore) Sin El Fil. B. P. 55-378 Beirut	Tel. +961 1 494 786 Fax +961 1 494 971 http://www.medrives.com info@medrives.com

Litva

Distribúcia	Alytus	UAB Irseva Statybininku 106C 63431 Alytus	Tel. +370 315 79204 Fax +370 315 56175 http://www.irseva.lt irmantas@irseva.lt
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Lotyšsko

Distribúcia	Riga	SIA Alas-Kuul Katlakalna 11C 1073 Riga	Tel. +371 6 7139253 Fax +371 6 7139386 http://www.alas-kuul.lv info@alas-kuul.com
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Luxembursko

znázornenie: Belgicko

Macedónsko

Distribúcia	Skopje	Boznos DOOEL Dime Anicin 2A/7A 1000 Skopje	Tel. +389 23256553 Fax +389 23256554 http://www.boznos.mk
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Maďarsko

Distribúcia Servis	Budapešť	SEW-EURODRIVE Kft. Csillaghegyi út 13. 1037 Budapest	Tel. +36 1 437 06-58 Fax +36 1 437 06-50 http://www.sew-eurodrive.hu office@sew-eurodrive.hu
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Malajzia

Montážny závod Distribúcia Servis	Johor	SEW-EURODRIVE SDN BHD No. 95, Jalan Seroja 39, Taman Johor Jaya 81000 Johor Bahru, Johor West Malaysia	Tel. +60 7 3549409 Fax +60 7 3541404 sales@sew-eurodrive.com.my
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Maroko

Distribúcia Servis	Bouskoura	SEW-EURODRIVE Morocco Parc Industriel CFCIM, Lot 55 and 59 Bouskoura	Tel. +212 522 88 85 00 Fax +212 522 88 84 50 http://www.sew-eurodrive.ma sew@sew-eurodrive.ma
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Mexiko

Montážny závod Distribúcia Servis	Quéretaro	SEW-EURODRIVE MEXICO S.A. de C.V. SEM-981118-M93 Tequisquiapan No. 102 Parque Industrial Quéretaro C.P. 76220 Querétaro, México	Tel. +52 442 1030-300 Fax +52 442 1030-301 http://www.sew-eurodrive.com.mx scmexico@sew-eurodrive.com.mx
Distribúcia Servis	Puebla	SEW-EURODRIVE MEXICO S.A. de C.V. Calzada Zavaleta No. 3922 Piso 2 Local 6 Col. Santa Cruz Buenavista C.P. 72154 Puebla, México	Tel. +52 (222) 221 248 http://www.sew-eurodrive.com.mx scmexico@sew-eurodrive.com.mx

Mongolsko

Technická kancelária	Ulanbátar	IM Trading LLC Olympic street 28B/3 Sukhbaatar district, Ulaanbaatar 14230	Tel. +976-77109997 Tel. +976-99070395 Fax +976-77109997 http://imt.mn/ imt@imt.mn
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Namíbia

Distribúcia	Swakopmund	DB MINING & INDUSTRIAL SUPPLIES CC Einstein Street Strauss Industrial Park Unit1 Swakopmund	Tel. +264 64 462 738 Fax +264 64 462 734 anton@dbminingnam.com
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Nigéria

Distribúcia	Lagos	Greenpeg Nig. Ltd Plot 296A, Adeyemo Akapo Str. Omole GRA Ikeja Lagos-Nigeria	Tel. +234-701-821-9200-1 http://www.greenpeg ltd.com bolaji.adekunle@greenpeg ltd.com
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Nórsko

Montážny závod Distribúcia Servis	Moss	SEW-EURODRIVE A/S Solgaard skog 71 1599 Moss	Tel. +47 69 24 10 20 Fax +47 69 24 10 40 http://www.sew-eurodrive.no sew@sew-eurodrive.no
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Nový Zéland

Montážny závod Distribúcia Servis	Auckland	SEW-EURODRIVE NEW ZEALAND LTD. P.O. Box 58-428 82 Greenmount drive East Tamaki Auckland	Tel. +64 9 2745627 Fax +64 9 2740165 http://www.sew-eurodrive.co.nz sales@sew-eurodrive.co.nz
	Christchurch	SEW-EURODRIVE NEW ZEALAND LTD. 30 Lodestar Avenue, Wigram Christchurch	Tel. +64 3 384-6251 Fax +64 3 384-6455 sales@sew-eurodrive.co.nz

Pakistan

Distribúcia	Karáči	Industrial Power Drives Al-Fatah Chamber A/3, 1st Floor Central Com- mercial Area, Sultan Ahmed Shah Road, Block 7/8, Karachi	Tel. +92 21 452 9369 Fax +92-21-454 7365 seweurodrive@cyber.net.pk
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Paraguaj

Distribúcia	Fernando de la Mora	SEW-EURODRIVE PARAGUAY S.R.L. De la Victoria 112, Esquina nueva Asunción Departamento Central Fernando de la Mora, Barrio Bernardino	Tel. +595 991 519695 Fax +595 21 3285539 sewpy@sew-eurodrive.com.py
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Peru

Montážny závod Distribúcia Servis	Lima	SEW EURODRIVE DEL PERU S.A.C. Los Calderos, 120-124 Urbanizacion Industrial Vulcano, ATE, Lima	Tel. +51 1 3495280 Fax +51 1 3493002 http://www.sew-eurodrive.com.pe sewperu@sew-eurodrive.com.pe
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Pobrežie Slonoviny

Distribúcia	Abidjan	SEW-EURODRIVE SARL Ivory Coast Rue des Pêcheurs, Zone 3 26 BP 916 Abidjan 26	Tel. +225 21 21 81 05 Fax +225 21 25 30 47 info@sew-eurodrive.ci http://www.sew-eurodrive.ci
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Poľsko

Montážny závod Distribúcia Servis	Łódź	SEW-EURODRIVE Polska Sp.z.o.o. ul. Techniczna 5 92-518 Łódź	Tel. +48 42 293 00 00 Fax +48 42 293 00 49 http://www.sew-eurodrive.pl sew@sew-eurodrive.pl
	Servis	Tel. +48 42 293 0030 Fax +48 42 293 0043	24-hodinová telefonická pohotovostná služba Tel. +48 602 739 739 (+48 602 SEW SEW) serwis@sew-eurodrive.pl

Portugalsko			
Montážny závod Distribúcia Servis	Coimbra	SEW-EURODRIVE, LDA. Av. da Fonte Nova, n.º 86 3050-379 Mealhada	Tel. +351 231 20 9670 Fax +351 231 20 3685 http://www.sew-eurodrive.pt infosew@sew-eurodrive.pt
Rakúsko			
Montážny závod Distribúcia Servis	Viedeň	SEW-EURODRIVE Ges.m.b.H. Richard-Strauss-Straße 24 1230 Wien	Tel. +43 1 617 55 00-0 Fax +43 1 617 55 00-30 http://www.sew-eurodrive.at sew@sew-eurodrive.at
Rumunsko			
Distribúcia Servis	Bukurešť	Sialco Trading SRL str. Brazilia nr. 36 011783 Bucuresti	Tel. +40 21 230-1328 Fax +40 21 230-7170 sialco@sialco.ro
Rusko			
Montážny závod Distribúcia Servis	Petrohrad	ЗАО «СЕР-ЕВРОДРАЙФ» а. я. 36 195220 Санкт-Петербург	Tel. +7 812 3332522 / +7 812 5357142 Fax +7 812 3332523 http://www.sew-eurodrive.ru sew@sew-eurodrive.ru
Senegal			
Distribúcia	Dakar	SENEMECA Mécanique Générale Km 8, Route de Rufisque B.P. 3251, Dakar	Tel. +221 338 494 770 Fax +221 338 494 771 http://www.senemeca.com senemeca@senemeca.sn
Singapúr			
Montážny závod Distribúcia Servis	Singapúr	SEW-EURODRIVE PTE. LTD. No 9, Tuas Drive 2 Jurong Industrial Estate Singapore 638644	Tel. +65 68621701 Fax +65 68612827 http://www.sew-eurodrive.com.sg sewsingapore@sew-eurodrive.com
Slovensko			
Distribúcia	Bratislava	SEW-Eurodrive SK s.r.o. Rybničná 40 831 06 Bratislava	Tel. +421 2 33595 202, 217, 201 Fax +421 2 33595 200 http://www.sew-eurodrive.sk sew@sew-eurodrive.sk
	Košice	SEW-Eurodrive SK s.r.o. Slovenská ulica 26 040 01 Košice	Tel. +421 55 671 2245 Fax +421 55 671 2254 Mobilný tel. +421 907 671 976 sew@sew-eurodrive.sk
Slovinsko			
Distribúcia Servis	Celje	Pakman - Pogonska Tehnika d.o.o. Ul. XIV. divizije 14 3000 Celje	Tel. +386 3 490 83-20 Fax +386 3 490 83-21 pakman@siol.net
Španielsko			
Montážny závod Distribúcia Servis	Bilbao	SEW-EURODRIVE ESPAÑA, S.L. Parque Tecnológico, Edificio, 302 48170 Zamudio (Vizcaya)	Tel. +34 94 43184-70 http://www.sew-eurodrive.es sew.spain@sew-eurodrive.es
Spojené arabské emiráty			
Distribúcia Servis	Dubaj	SEW-EURODRIVE FZE PO Box 263835 Office No. S3A1SR03 Jebel Ali Free Zone – South, Dubai, United Arab Emirates	Tel. +971 (0)4 8806461 Fax +971 (0)4 8806464 http://www.sew-eurodrive.ae info@sew-eurodrive.ae
Srbsko			
Distribúcia	Belehrad	DIPAR d.o.o. Ustanicka 128a PC Košum, IV floor 11000 Beograd	Tel. +381 11 347 3244 / +381 11 288 0393 Fax +381 11 347 1337 office@dipar.rs

Srí Lanka

Distribúcia	Colombo	SM International (Pte) Ltd 254, Galle Raod Colombo 4, Sri Lanka	Tel. +94 1 2584887 Fax +94 1 2582981
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Švajčiarsko

Montážny závod Distribúcia Servis	Bazilej	Alfred Imhof A.G. Jurastrasse 10 4142 Münchenstein bei Basel	Tel. +41 61 417 1717 Fax +41 61 417 1700 http://www.imhof-sew.ch info@imhof-sew.ch
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Svazijsko

Distribúcia	Manzini	C G Trading Co. (Pty) Ltd Simunye street Matsapha, Manzini	Tel. +268 7602 0790 Fax +268 2 518 5033 charles@cgtrading.co.sz www.cgtradingswaziland.com
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Švédsko

Montážny závod Distribúcia Servis	Jönköping	SEW-EURODRIVE AB Gnejsvägen 6-8 553 03 Jönköping Box 3100 S-550 03 Jönköping	Tel. +46 36 34 42 00 Fax +46 36 34 42 80 http://www.sew-eurodrive.se jonkoping@sew.se
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Taiwan (R.O.C.)

Distribúcia	Taipei	Ting Shou Trading Co., Ltd. 6F-3, No. 267, Sec. 2 Tung Huw S. Road Taipei	Tel. +886 2 27383535 Fax +886 2 27368268 Telex 27 245 sewtwn@ms63.hinet.net http://www.tingshou.com.tw
	Nan Tou	Ting Shou Trading Co., Ltd. No. 55 Kung Yeh N. Road Industrial District Nan Tou 540	Tel. +886 49 255353 Fax +886 49 257878 sewtwn@ms63.hinet.net http://www.tingshou.com.tw

Taliansko

Montážny závod Distribúcia Servis	Miláno	SEW-EURODRIVE di R. Blickle & Co.s.a.s. Via Bernini,14 20020 Solaro (Milano)	Tel. +39 02 96 980229 Fax +39 02 96 980 999 http://www.sew-eurodrive.it milano@sew-eurodrive.it
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Tanzánia

Distribúcia	Dar es Salaam	SEW-EURODRIVE PTY LIMITED TANZANIA Plot 52, Regent Estate PO Box 106274 Dar Es Salaam	Tel. +255 0 22 277 5780 Fax +255 0 22 277 5788 http://www.sew-eurodrive.co.tz info@sew.co.tz
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Thajsko

Montážny závod Distribúcia Servis	Chonburi	SEW-EURODRIVE (Thailand) Ltd. 700/456, Moo.7, Donhuaroh Muang Chonburi 20000	Tel. +66 38 454281 Fax +66 38 454288 sewthailand@sew-eurodrive.com
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Tunisko

Distribúcia	Tunis	T. M.S. Technic Marketing Service Zone Industrielle Mghira 2 Lot No. 39 2082 Fouchana	Tel. +216 79 40 88 77 Fax +216 79 40 88 66 http://www.tms.com.tn tms@tms.com.tn
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Turecko

Montážny závod Distribúcia Servis	Kocaeli-Gebze	SEW-EURODRIVE Hareket Sistemleri San. Ve TIC. Ltd. Sti Gebze Organize Sanayi Böl. 400 Sok No. 401 41480 Gebze Kocaeli	Tel. +90 262 9991000 04 Fax +90 262 9991009 http://www.sew-eurodrive.com.tr sew@sew-eurodrive.com.tr
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Ukrajina

Montážny závod Distribúcia Servis	Dnepropetrovsk	SEW-EURODRIVE, LLC Robochya str., bld. 23-B, office 409 49008 Dnipro	Tel. +380 56 370 3211 Fax +380 56 372 2078 http://www.sew-eurodrive.ua sew@sew-eurodrive.ua
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Uruguaj			
Montážny závod Distribúcia	Montevideo	SEW-EURODRIVE Uruguay, S. A. Jose Serrato 3569 Esquina Corumbe CP 12000 Montevideo	Tel. +598 2 21181-89 Fax +598 2 21181-90 sewuy@sew-eurodrive.com.uy
USA			
Výrobný závod Montážny závod Distribúcia Servis	Juhovýchod	SEW-EURODRIVE INC. 1295 Old Spartanburg Highway P.O. Box 518 Lyman, S.C. 29365	Tel. +1 864 439-7537 Fax Distribúcia +1 864 439-7830 Fax Výrobný závod +1 864 439-9948 Fax Montážny závod +1 864 439-0566 Fax Confidential/HR +1 864 949-5557 http://www.seweurodrive.com cslyman@seweurodrive.com
Montážny závod Distribúcia Servis	Severovýchod	SEW-EURODRIVE INC. Pureland Ind. Complex 2107 High Hill Road, P.O. Box 481 Bridgeport, New Jersey 08014	Tel. +1 856 467-2277 Fax +1 856 845-3179 csbridgeport@seweurodrive.com
	Stredozaпад	SEW-EURODRIVE INC. 2001 West Main Street Troy, Ohio 45373	Tel. +1 937 335-0036 Fax +1 937 332-0038 cstroy@seweurodrive.com
	Juhozápad	SEW-EURODRIVE INC. 3950 Platinum Way Dallas, Texas 75237	Tel. +1 214 330-4824 Fax +1 214 330-4724 csdallas@seweurodrive.com
	Západ	SEW-EURODRIVE INC. 30599 San Antonio St. Hayward, CA 94544	Tel. +1 510 487-3560 Fax +1 510 487-6433 cshayward@seweurodrive.com
	Wellford	SEW-EURODRIVE INC. 148/150 Finch Rd. Wellford, S.C. 29385	Tel. +1 864 439-7537 Fax +1 864 661 1167 IGOrders@seweurodrive.com
Ďalšie adresy servisných stredísk na požiadanie.			
Veľká Británia			
Montážny závod Distribúcia Servis	Normanton	SEW-EURODRIVE Ltd. DeVilliers Way Trident Park Normanton West Yorkshire WF6 1GX	Tel. +44 1924 893-855 Fax +44 1924 893-702 http://www.sew-eurodrive.co.uk info@sew-eurodrive.co.uk
Drive Service Hotline / 24-hodinová telefonická pohotovostná služba			Tel. 01924 896911
Vietnam			
Distribúcia	Hočimínovo Mesto	SEW-EURODRIVE PTE. LTD. RO at Hochiminh City Floor 8, KV I, Loyal building, 151-151 Bis Vo Thi Sau street, ward 6, District 3, Ho Chi Minh City, Vietnam	Tel. +84 937 299 700 huytam.phan@sew-eurodrive.com
	Hanoj	MICO LTD Quảng Trị - Severný Vietnam / Všetky odvetvia okrem Stavebný Materiál 8th Floor, Ocean Park Building, 01 Dao Duy Anh St, Ha Noi, Viet Nam	Tel. +84 4 39386666 Fax +84 4 3938 6888 nam_ph@micogroup.com.vn http://www.micogroup.com.vn
Zambia			
znázornenie: Juhoafrická republika			

Register

A

Antény

Vázobný člen krátkych vln	9
Vázobný člen vozidla	9

F

Fáza Probing	5
--------------------	---

N

Nastavenia z výroby	12
---------------------------	----

O

Opis funkcie	5
--------------------	---

Označenie

Brazília	13
Čína	13
Európa	13
India	13
Juhoafrická republika	13
Maroko	14
Mexiko	13

Saudská Arábia	14
Thajsko	13
USA/Kanada	13

P

Prevádzkové režimy	8
--------------------------	---

Pripojenia

X4261	5
-------------	---

Prípojky

X4211	5, 7
X4261	7

T

Technické údaje	10, 11, 12
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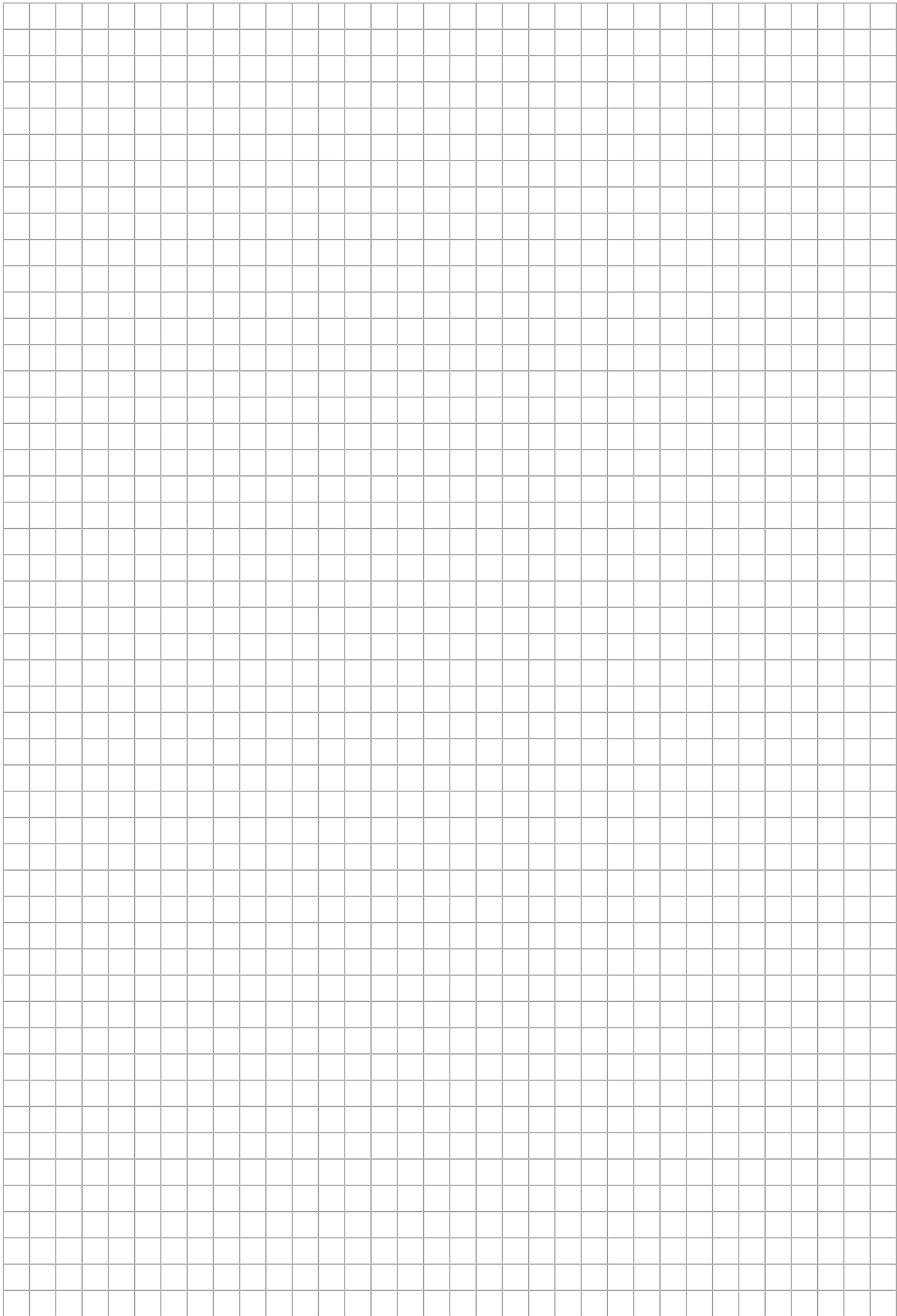
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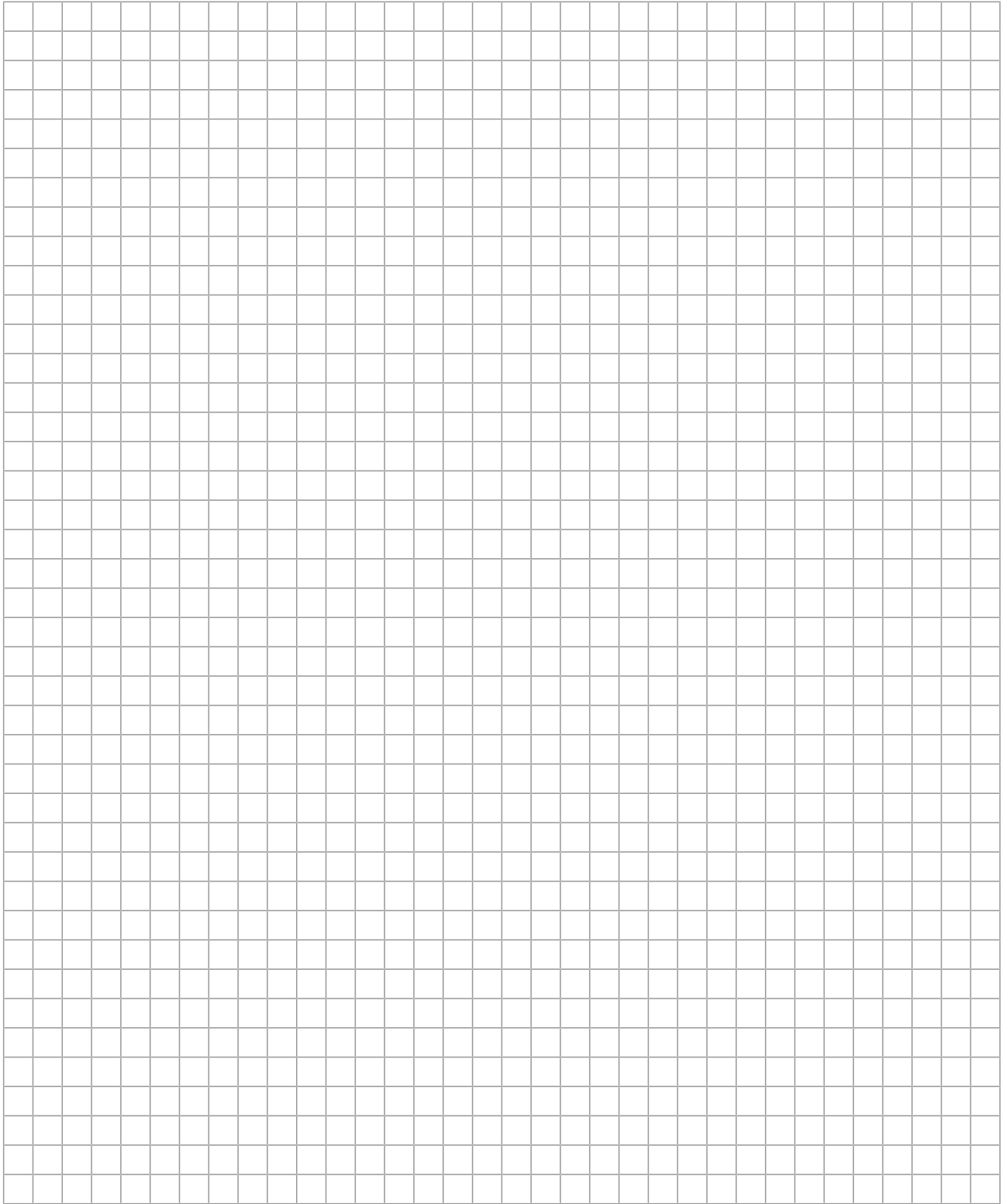
WLAN karty	5
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WPA2-AES-PSK	6
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